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The

CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2922
VOL. CXXIV.

FEBRUARY 8, 1936

Annual Subscription (with
Diary) 20/- Single Copies 9d.

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BLACK KORKALITE MOULDED CAP

WHITE ENAMELLED SCREW CAP

PLAIN CORK MOUTH

THE SPECIAL U.G.B. PROCESS OF STERILIZING

THEIR STERILIZED MEDICALS

STRAIGHT FROM SEALED DUSTPROOF CARTONS!

UNITED GLASS BOTTLE MANUFACTURERS LIMITED

*The Largest Manufacturers of Glass Bottles in Europe
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Telephone : Temple Bar 6680 (10 lines)
Telegrams : "Unglaboman, Estrand London"*

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Screw caps and glass containers, both manufactured by **U.G.B.**, ensure perfect fitting.



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**UNITED GLASS BOTTLE
MANUFACTURERS · LIMITED**

The Largest Manufacturers of Glass Bottles in Europe

40-43 Norfolk St., Strand, London, W.C.2

Telephone : Temple Bar 6680 (10 lines)

Telegrams : "Unglaborian, Strand, London"

Are retailers ADVERTISING EXPERTS? *

* Expert knowledge of advertising is valuable to the retailer because it helps him to form sound decisions when travellers urge him to stock goods 'because they are advertised.' The information given here is worth studying.

A list for you to consult is printed below, giving the names of the products sold through your trade which are regularly advertised in the Radio Times. You can be sure of a demand for these goods because, first, the Radio Times reaches nearly one-fourth of all the families in Great Britain and, secondly, because Radio Times readers respond to advertising owing to the unique circumstances in which the paper is read. Every issue of the Radio Times is referred to throughout a whole week, and it is natural for readers to 'fill in time' between wireless items by turning over its pages many times. Therefore advertisements in the Radio Times have a unique chance of being seen and studied. 'The cost per reply from your publication,' writes an advertiser, 'has been considerably lower than that from any other Newspaper, Periodical or Magazine used.'

The RADIO TIMES list for your trade

The advertisers below regularly use the Radio Times and are therefore assured of a steady demand. **Radio Times readers respond to advertising.**

The second half of this list will be published in the next Radio Times announcement appearing in this journal.

Yardley Lavender Water	Pears' Golden Glory Soap
Gibbs' Shaving Cream	Erasmic Shaving Stick
Veno's Cough Cure	Andrews' Liver Salt
Pond's Cold Cream	Moorland's Tablets
Gibbs' Dentifrice	Luc's Toilet Soap
Vinolia Soap	Sloan's Liniment
Fever-a-Mint	Germolene
Silvikrin	Kalzana
Vionase	Kleenex
Icilma	Irvona
Izal	Virol
Silf	Ciefa
Dettol	Jocigares
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Jeyes' Fluid	Selo Fibus
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Robinson's Patent Barley	Thermogene Vapour Rub
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Californian Poppy Perfume	

Goods sell quickly when they're advertised in the

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Guaranteed Average Net Sales for 1936 — 2,600,000 per week

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4/- DOZ.

COMBINATION PENCILS. All at 4/- per doz.
 No. 1. B. P. Tincture of Iodine & Styptic.
 No. 2. Stainless do. & Styptic.
 No. 5. Insect Bite Lotion & Styptic.



2/- DOZ.

SINGLE PENCILS. 2/- doz.
 No. 10. B. P. Tincture of Iodine.
 No. 11. Stainless do. Iodine.
 No. 12. Ten. B. P. 5 grain Aspirin.
 No. 14. Assorted Perfumes.

Eau de Cologne.	O'Desire.
O'Divine.	O'Delusive.
Lavender.	Honeysuckle.
Gardenia.	Violet.
Jasmin.	Sweet Pea.
Lilac.	Rose.

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 73 to 78 High Holborn, London, W.C.1
 Holborn 1000, 6000, 9000.

2/- DOZ.



BONUS OFFER
14 PENCILS
 SUPPLIED FOR ORDER OF
 1 DOZ. OF ANY PENCIL

THIS OFFER IS OPEN FOR A
 STRICTLY LIMITED PERIOD
 ONLY.

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BURGOYNE BURBIDGES & Co. LTD.

Manufacturers of Pharmaceutical Preparations since 1741

are pleased to announce that

Normo-Gastrine

and the following important medical specialities have been added to the "Chemists' Friends" list.

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MARKETED

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SHEN WORKS
TOWER BRIDGE ROAD
LONDON, S.E.1

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Staff AllenS

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FOR USE IN

AGRICULTURAL
AND
HORTICULTURAL
INSECTICIDES

FLY
AND
INSECT SPRAYS

CATTLE DRESSINGS
AND
SPRAYS

* Write for Booklet "Rotenone Containing Preparations"

STAFFORD ALLEN & SONS LTD.
Manufacturing Chemists, COWPER STREET, LONDON, E.C.2

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Increased advertising in HALF PAGES in the big National newspapers throughout 1936—in addition to our usual Advertising Campaign—is another reason why you should stock and display Moorlands.

No other 7½d. nationally advertised article sells in such quantity as MOORLANDS and yields anything approaching the same percentage of profit.

DAILY MAIL - $\frac{1}{2}$ -page JAN. 27
NEWS CHRONICLE $\frac{1}{2}$ -page JAN. 24

DAILY MAIL - $\frac{1}{2}$ -page JAN. 27
NEWS CHRONICLE $\frac{1}{2}$ -page JAN. 24

- and more to come!

W. B. CARTWRIGHT LTD., RAWDON, LEEDS.

We Manufacture
THE MALT
with the
**Special Butterscotch
Flavour**

Malt extract preparations are notoriously difficult to manufacture. Are you completely satisfied that the products you sell are the best obtainable?

We manufacture every combination of malt extract, suitable for any climate. Oil of full vitamin content—best quality Barley—an ultra modern plant backed by specialised experience of many years enables us to offer you a really "Trouble-free" Malt Extract which never crystallises. Various flavours are obtainable including the special Butterscotch flavour.

Attractive packing and a choice selection of labels are available.

We will gladly send you samples with ample literature and specimens of show material on request.
YOU CANNOT BUY BETTER THAN THE BEST.

All our products, unless otherwise ordered, conform to the standards of the 1932 B.P.

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MALT EXTRACT MANUFACTURERS

LTD.

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WIGAN 2327

LEYLAND MILLS
WIGAN

TELEGRAMS:
MALTUM, WIGAN

London Depot:
73A DURHAM ROAD, HOLLOWAY, LONDON, N.7. PHONE: ARCHWAY 3627

You cannot buy better than the best!

ONLY Specialisation

A BATTERY OF OUR PILL MACHINES

CAN GIVE PERFECTION IN FINISH
AND UNIFORMITY IN ACTION IN

PILLS & TABLETS

ROTARY TABLET MACHINES FOR
LARGE QUANTITY PRODUCTION

• PACKED OR BULK
• COATED OR UNCOATED
• STANDARD OR PRIVATE FORMULAE

OUR WIDE EXPERIENCE AND FULL FACILITIES
ENABLE US TO MAINTAIN A HIGH STANDARD OF
MANUFACTURING EXCELLENCE, AND TO QUOTE
EXCEPTIONALLY KEEN PRICES

ESTAB. 1839

Arthur H. Cox
& Co. Ltd.
BRIGHTON

SIFTING

GARDNER'S
Patent "RAPID"
SIFTER & MIXER.

For powdered drugs and chemicals, cosmetic and toilet powders, etc. Will blend 1 oz. with 1 cwt. with completely uniform distribution. Made in many sizes for hand or power use.

WM GARDNER & SONS (Gloucester) LTD.
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London Office: 19 Gray's Inn Chambers, 20 High Holborn, W.C.I.
Telegrams: "Gardner, Gloucester."
Telephone: Chancery 7347

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Principal—H. LUCAS, Ph.C., F.C.S.

"THE SCHOOL FOR SUCCESS"

This College affords systematic instruction in the subjects for the Preliminary Scientific and Qualifying Examinations.

A New Course for the Preliminary Scientific starts early in April, 1936; fee, 6 months, 20 guineas.

Revision Courses, 3 months, commence in January, April, and July; fee, 10 guineas.

Once-a-week Classes for Part I are held each Wednesday, 2-8.30; fee, £2.0 per term.

For all particulars apply THE PRINCIPAL—
186 CLAPHAM RD., LONDON, S.W.9. Phone: REL. 2037.

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Complete Training for the Sight-Testing Optician

Full-time and Part-time Courses, covering the preparation for both the F.B.O.A. and F.S.M.C. examinations, and including clinical work, are conducted under the personal direction of the Principal, Mr. G. W. COLEBROOK, F.B.O.A. (Hons.), F.S.M.C. (Master's Prizeman), assisted by Mr. E. W. WOODRUFF, B.Sc., F.B.O.A. (Hons.).

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For full particulars apply to: The Principal.

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MEDICINAL RESINS • RESINOIDS
OLEO-RESINS • EXPRESSED JUICES
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Medicinal Preparations

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in bond for Export

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ESTABLISHED 1846
MANUFACTURING CHEMISTS
HITCHIN near LONDON

WHOLESALE AND EXPORT ONLY

When buying electric lamps



THESE LAMPS
GIVE UP TO
20%
MORE LIGHT
THAN ORDINARY
GASFILLED LAMPS



All lamps look alike, but so-called "cheap" lamps are expensive to use because they give less light and consume more current than good lamps. When you buy lamps, safeguard your pocket. Buy Mazda Lamps which are:-

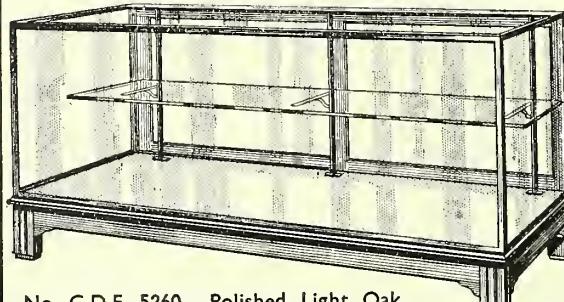
- carefully tested to ensure freedom from the defects which make "cheap" lamps so expensive.
- of uniform efficiency and life.
- specially designed for their particular purpose.
- strong enough to withstand ordinary usage.

MAZDA
GASFILLED
COILED-COIL
LAMPS
WITH THE WONDERFUL NON-SAG FILAMENT

MADE IN ENGLAND BY THE BRITISH THOMSON-HOUSETON CO., LTD.

GLASS COUNTERS INCREASE YOUR TRADE

We can prove it



No. C.D.F. 5260 Polished Light Oak frame Glass Counter 6 ft. long x 3 ft. high x 2 ft. deep—Drawn plate glass—interior fitted 1 row of 12" shelves. £8 10 0

Mahogany finish £8 15 0

Gladly supplied upon an initial payment of 15/-

Let us send you particulars in our List No. C.D. 1600

DUDLEY & COMPANY LIMITED

Holloway, London, N.7

City Showrooms: 65 Fore St., E.C.

The NEW PACK

Size and Contents
remain the same

- More up-to-date.
- Better for display.
- Will stand up in Window or on counter.

A Tonic for
Benbow Sales

PRICES:
In Bottles
1/6, 2/6, 6/- and 12/-
P.A.T.A.

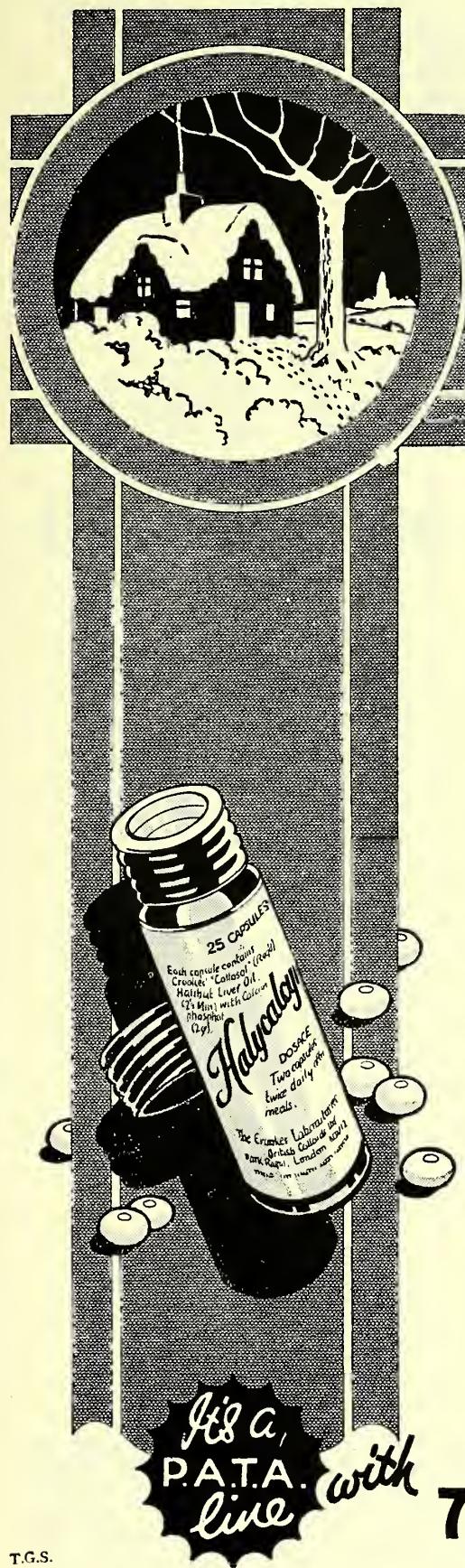
In Capsules
at 3/- per box.
Also in ½-gall.
and 1-gall. cans.

Order through your
usual wholesaler.



BENBOW'S DOG MIXTURE Co., Ltd.

2 BARTHOLOMEW CLOSE, LONDON, E.C.1



CROOKES' HALYCALCYNE

*for the Treatment
of Chilblains*

At last a really effective and simple treatment for chilblains endorsed by overwhelming medical opinion. You are urged to take advantage of the generous bonus terms offered. Write for full particulars at once.

CROOKES'
PURE HALIBUT LIVER
OIL BRAND (Regd)
with
CALCIUM PHOSPHATE

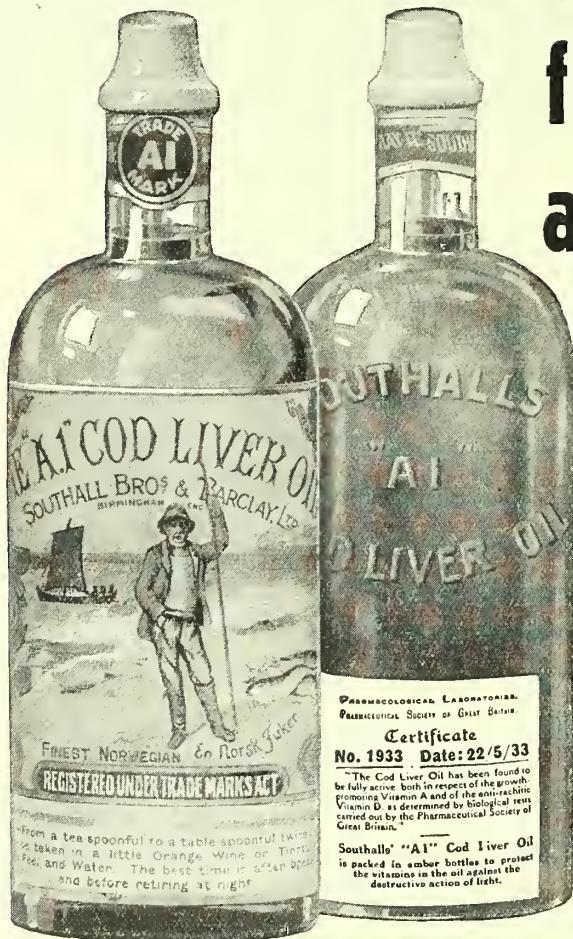
THE CROOKES LABORATORIES,
(British Colloids Ltd.)
PARK ROYAL, LONDON, N.W.10

70% PROFIT ON OUTLAY

SOUTHALL'S

AI

COD LIVER OIL



for quick sales
and good profits

This famous line is as rich in profit for you as it is in benefit for the ultimate user.

You can recommend it with absolute confidence because it is the best Norwegian Cod Liver Oil possible to obtain.

Especially rich in vitamins A and D, entirely free from any fishy odour or flavour, and easily digested, it is as acceptable to the doctors who prescribe it as to the patients who take it.

It is strictly a chemist's line with protected profit; make a display now—your benefit is sure.

Minimum Retail Prices

(P.A.T.A.) ... 10d. ... 1/3 ... 2/3 ... 4/- each
Nett price per dozen 6/- ... 9/- ... 15/6 ... 27/9 doz.
Nett price per doz. in gross lots ... 5/6 ... 8/6 ... 14/6 ... 25/9 ..

Obtainable by Pharmacists only

SOUTHALL BROS. & BARCLAY (1935) LTD., PRIORY HOUSE, BIRMINGHAM

SOUTHALL'S 'AI' COD LIVER OIL

"As a business man . . .

. . . I have no alternative"

. . . writes this successful chemist

We get many complimentary letters from our customers, but perhaps none has pleased us quite so much as the one we received only the other day from a successful Lancashire chemist.

He says: "I am delighted with our increased sales of Maclean brand products during the past 12 months.

According to our records, they are far ahead of the previous year's figures. This year it is my intention to double last year's figures if possible.

My interest in your lines is as keen as ever—in fact yours are my star lines. . . .

A short while ago a traveller asked me if I would mind telling him the

reason for my interest in Macleans' lines. He remarked that every time he called, he noticed a large display of your lines on show. 'The reason,' I replied, 'is that *Macleans co-operate in such a manner that as a business man I have no alternative.*'

Will you kindly send me sufficient show-matter for a full window display. The window is 12 ft. long."

This letter is typical of many others received from private chemists who are building up sound, progressive business in the face of fierce competition, by displaying Macleans' nationally advertised lines. *Macleans Ltd., Great West Road, Brentford. Telephone Ealing 6616.*

Dr. Page-Barker's Dandruff Lotion

FOUR DOZEN
FOR THE PRICE OF
THREE!

SPECIAL OFFER!



Note the Improved
Screw Cap.

Send us your usual
order for Three Dozen
Dr. Page-Barker's Scurf
and Dandruff Lotion and
we will send you
**ONE DOZEN 2/6 BOTTLES
FREE!**

This offer applies only to Gt. Britain
and Northern Ireland and definitely
terminates February 29.

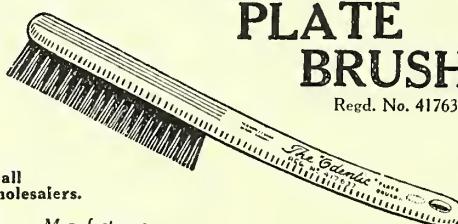
**THOS. CHRISTY & CO., LTD.
4-12 Old Swan Lane, London, E.C.**

30/-

**Worth of Goods
FREE**

"ODENTIC" PLATE BRUSH

Regd. No. 417637.



From all
Wholesalers.

Manufacturers :
W. R. Speer & Son (EST. 100 YEARS)
215 DALSTON LANE . . . LONDON, E.8

CHEMIST SIGNS

BUY DIRECT FROM
THE MAKERS

ILLUMINATED FROM 65/-
NON-ILLUMINATED FROM 47/6
SEND FOR ILLUSTRATED CATALOGUE
SCINTILLATING SIGN SERVICE
68^A COLEBROOKE ROW
ISLINGTON N.1
TELEPHONE CLERKENWELL 1310

~IN A CLASS BY THEMSELVES.....

DAWN'

Regd.

This attractive counter
display outer takes up
little space and has
proved a wonderful
sales help. Colourful,
yet neat, it will ensure
those EXTRA sales if
prominently displayed.



RAVEL PROOF FACE CLOTHS

A cheap face cloth will bring neither profit nor satisfaction.
"Dawn" Face Cloths will increase both your turnover and your
reputation. Your customers will come again once they have tried
them. "Dawn" never get slimy. Their delicate pastel colourings
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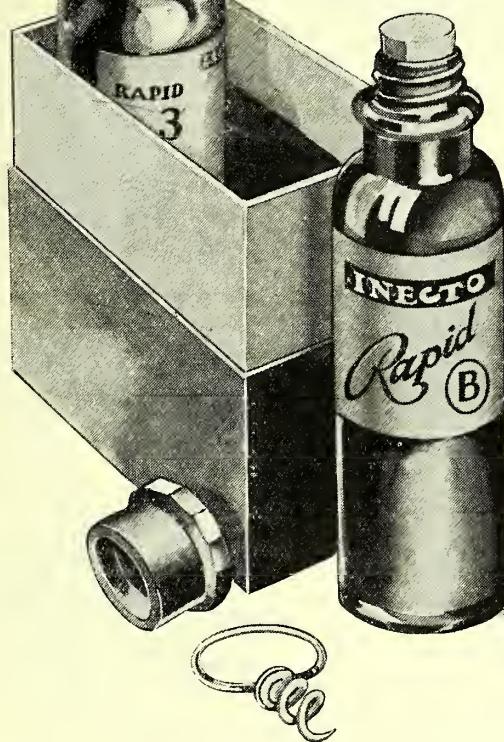
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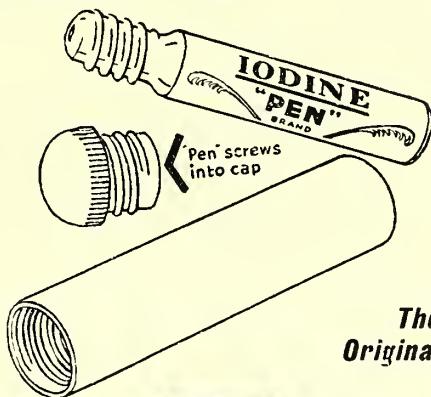
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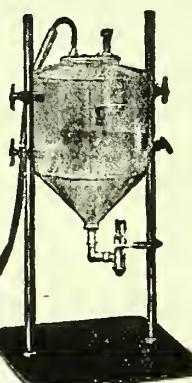
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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

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VOL. 124. NO. 2922

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News of the Week

The Death of King George V.

The following letter, signed by the president of the Estonian Society of Apothecaries, has been received by the Editor of THE CHEMIST AND DRUGGIST:

DEAR SIR,—We beg to express our heartfelt sympathy and sorrow on the death of your illustrious Sovereign his Majesty King George V. All Estonia is mourning together with your great people this deep-felt loss.

Key Industry Exemption—Safrol

The Treasury have made an Order under Section 10 (5) of the Finance Act, 1926, exempting SAFROL from Key industry duty from February 12, 1936, until August 19, 1936.

Import Duty Exemption—Oxalic Acid

Under the Import Duties (Exemptions) (No. 1) Order, 1936, dated January 31, 1936, OXALIC ACID was added to the Free List under the Import Duties Act, 1932, as from February 3, 1936. Note: This product is also exempted from liability to Key industry duty.

Warble Fly (Dressing of Cattle) Order

The Ministry of Agriculture and Fisheries have issued the above Order, under the Diseases of Animal Acts. Provision is made for cattle visibly infected with the maggot of the warble fly to be dressed periodically with a dressing of the following specification:—

The dressing shall be prepared immediately before use by diluting with water a preparation, in powder form, containing powdered derris root. The directions for the dilution of the preparation shall be such that each gallon of dressing produced shall contain:—

(a) either one and a half ounces of derris resins or half an ounce of rotenone; and also

(b) four ounces of soap which may be added at the time of dilution or may be incorporated in the preparation in powder form.

Copies of the Order may be obtained upon application to the Ministry of Agriculture and Fisheries, Whitehall, London, S.W.1.

Proprietary Articles Trade Association

A meeting of the Council of the Proprietary Articles Trade Association was held on February 3, the president (Mr. A. T. Hall) in the chair. The purpose of the meeting was to consider the position of the P.A.T.A. in relation to the Chemists' Friends scheme. The Executive Committee reported that after careful consideration of the matter, they had felt it desirable to place their views before the Executive of the National Pharmaceutical Union, and that prior to the Council meeting that afternoon they had had the advantage of discussing the position personally with the chairman and secretary of the Union. It was likely that further discussions between representatives of the Union and the P.A.T.A. would take place. The Council, having discussed the matter, decided on the procedure to be followed in the endeavour to reach an agreement in regard to the working of the scheme which would be acceptable to all interests concerned.

National Federation of Grocers' and Provision Dealers' Associations

We have been favoured with the following extracts from the report of the Parliamentary Committee of the National Federation of Grocers' and Provision Dealers' Associations, which is being submitted for adoption at the quarterly meeting of the

National Council of the Federation during the present week:—

The Poisons List and Rules come into operation on May 1 next, from which date existing legislation relating to the sale, distribution, etc., of poisons and poisonous substances will be repealed and replaced by the relevant provisions of the Pharmacy and Poisons Act, 1933. . . . Thanks to the Federation's persistent and reasoned representations, substantial gains have been secured for grocers and kindred traders, particularly in regard to disinfectants. . . . A further and fuller advisory memorandum will be sent to Associations as soon as possible, and Associations should take care to keep their members fully informed, particularly as to registration before May 1 next.

With surprise we have learned that the Pharmaceutical Society, despite the fact that its secretary and four other members were on the Poisons Board, had asked the Home Secretary to receive a deputation to make further representations on the Poisons List and Rules, and therefore a request has been made for the Home Secretary to receive a deputation from this Federation and kindred interests in the event of the pharmacists being received by him.

Strong and country-wide protest has been made by the Federation against this scheme [the Chemists' Friends scheme] which, briefly put, is designed to induce manufacturers to enter into agreement for at least seven years to market their products exclusively through registered chemists and druggists. It is clearly an attempt to anticipate the operation of the new Poisons List and is a monopoly-creating effort to abrogate the authority of the Legislature. Chemists "poach" on the "preserves" of the grocery and other trades. Our protest has been given a sympathetic reception by many manufacturers and wholesalers of "lines" marketed through chemists and grocers and, with the backing of Associations, the Federation's efforts to prevent operation of the chemists' monopoly plan will be successful. Grocers should give every support to manufacturers and wholesalers who have, in this test, proved to be grocers' friends.

Association of Pharmaceutical Employees

At a meeting organised in association with the National Amalgamated Union of Shop Assistants, Warehousemen and Clerks, held in London on February 2, the following proposed minimum wage rates for a maximum working week of forty-eight hours were agreed to:—*Apprentices*.—First year, 10s. per week; second year, 15s. per week; third year, 25s. per week. *Unqualified Assistants*.—First year, £2 10s. per week; second year, £2 15s. per week; third year, £3 5s. per week; fourth year, £3 10s. per week; fifth year, £4 per week. *Qualified Assistants*.—First year after qualification, £4 10s. per week; second year after qualification, £5 per week; third year after qualification, £5 10s. per week. *Managers (qualified and otherwise)*.—£6 per week. This rate is applicable only to shops with the smallest turnover. The above minimum rates do not take into account commission payments and bonuses.

Inquests

The inquest on the body of Miss Ada L. Baguley, who died in a nursing home at Nottingham (*C. & D.*, January 25, p. 90), ended on January 30 with a verdict to the effect that she died of morphine poisoning; the jury added that she was murdered by Ronald Joseph Sullivan and Dorothea Nancy Waddingham, who were committed for trial.

The St. Pancras (London) corner recorded, on January 31, a verdict of "Death from misadventure" at the conclusion of an inquiry, which had been adjourned for the purpose of analysis, concerning the death of Mr. Alfred E. Jeffries. It appeared that the patient had been taking, for asthma and bronchitis, tablets containing amidopyrine. His daughter stated that there was nothing on the bottle warning people against taking too many. The coroner observed that until recently the danger was not known. Sir Bernard Spilsbury, in the course of his evidence, said: "This is a drug which has a proper use, but the danger lies in these cases of personal idiosyncrasy. People take these tablets with impunity for a long time, and then the symptoms develop. The benefits obtained from the drug give people a false sense of confidence." Mr. Williams, representing the makers of the tablets, said that steps had been taken immediately to exclude the drug from the preparation.

At Altrincham, recently, an inquest was held on the body

of Mrs. Elizabeth Hall, who, medical evidence showed, died from malignant disease. Mr. Thomas H. Wilbraham, a herbalist, who attended the inquest accompanied by a solicitor, gave particulars of his treatment of the patient. This witness described himself as "a herbalist practitioner," adding later that he was a manipulative surgeon and a pupil of Sir Herbert Barker. Questioned about having examined some swelling on the deceased, witness said he had not. He saw the inside of the body, being inspired. The Coroner: If you can see inside the body you could see these swellings?—I see the important things only, the serious parts affected. Mr. Wilbraham said he prescribed for cancer, prescribing herbs. He did not lead the patient to believe he would cure her of cancer, but told her he would alleviate her pain. He claimed to alleviate suffering and to annihilate the germ. The Foreman: Do you claim you can make an examination of the body with a person wearing clothes?—Yes. Is that not more than what the greatest specialists and scientists can do with the naked eye?—It is a gift to me personally. Eventually the jury, after a retirement, returned a verdict of "Death from natural causes."

After-Dinner Speeches

The annual meeting and dinner of the Worcestershire and Herefordshire Branch of the Pharmaceutical Society was held at the Guildhall, Worcester, on January 30, when a large number of pharmacists from Worcester, Hereford, Malvern, Colwall, Evesham, Stourport, Droitwich, Kidderminster and Stourbridge were present. At the meeting prior to the dinner, the following officers were appointed: *Chairman*, Mr. A. Westley Gedge, Malvern Link; *Vice-Chairman*, Mr. Donald G. Pout, Worcester; *Treasurer*, Mr. A. E. Baylis, Great Malvern; *Secretary*, Mr. C. E. Gedge, Malvern Link. Mr. A. E. Coverdale presided at the dinner, and the guest of the evening was Mr. W. Deacon (a member of the Society's Council). Mr. Deacon gave a general résumé of the work of the Society, explaining the functions of the committees and how they endeavoured to work for the benefit of the pharmacist. The Pharmacological Laboratories, he claimed, had brought additional prestige to the Society and thus to pharmacists. A book was in preparation by Mr. Linstead on the Poisons and Pharmacy Act, 1933. Of course the inspectors would do their duty in seeing that the provisions of the Act were carried out, but they would do it in a friendly and advising capacity. Mr. Deacon stressed the necessity for more frequent branch meetings, especially as there were well-organised and powerful forces outside pharmacy only too ready to snatch what was pharmacy's right. Questions were asked by members.

The annual dinner of the Brighton and Hove Association of Pharmacy, held at the Grand Hotel, Brighton, on January 30, proved as popular an event as ever. Among the guests were Messrs. E. Saville Peck (president of the Pharmaceutical Society), Dr. C. H. Hampshire, Dr. L. A. Party (Brighton Branch of the British Medical Association), Mr. G. W. Badcock (president of the Dental Association, Brighton Branch), Mr. H. E. Browne (president of the Eastbourne Association of Pharmacy), Mr. E. W. Skyrme (president of the Hastings and St. Leonards Pharmaceutical Association), and directors of many commercial houses. Mr. Donald Foster (Branch president), in proposing the toast of "The Pharmaceutical Society," referred to the new Act as the "Poisonous Act," which interpretation was enthusiastically received by all present. Mr. E. Saville Peck, in reply, strongly condemned the proposals of the Act, which, he said, meant the throwing over of the advice of the specially chosen Advisory Board. The toast of "The Ladies and Visitors" was happily proposed by Mr. C. V. Brumwell, and acknowledged by Dr. C. H. Hampshire, who aroused enthusiasm by the mention of the brothers Foster. He said that it was a happy thought that Mr. Donald was the Branch president and Mr. Hugh secretary. The Association is indebted to the following, who provided prizes for the occasion:—Allen & Hanburys, Ltd.; J. & E. Atkinson, Ltd.; Bourjois, Ltd.; Brand & Co., Ltd.; The British Drug Houses, Ltd.; Butler & Crispe, Ltd.; R. A. Cripps & Son, Ltd.; Evans Sons Lescher & Webb, Ltd.; S. Maw, Son & Sons, Ltd.; United Chemists' Association, Ltd.; Ucal. The especial thanks of the Association are due to Morny, Ltd., who presented each lady present with a gift to mark the occasion. The dinner committee consisted of Messrs. Hugh Foster, C. V. Brumwell, Leonard Franklin and F. W. Burgess; M.C.s for the dance were Messrs. Stuart and Gordon Padwick.

The concern of the Pharmaceutical Society's Council at the action taken by the Home Secretary in respect of the Poisons List and Rules was voiced by the president (Mr. E. Saville Peck) in a speech at the annual dinner of the West Middlesex Chemists' Association and Branch of the Pharmaceutical Society, held at the Connaught Rooms, London, W.C.2, on February 5. "In my opinion," he said, "it is against public good and certainly against the welfare of pharmacy." After one month the Council had received no reply to an application that the Home Secretary should receive a deputation on the subject, beyond a request that the points to be put forward should be made known. Pharmacists, said Mr. Peck, were entitled to demand reservation to themselves of a public service for which they were qualified by special training. He understood that a certain institute of grocers imposed an examination upon aspirants to membership. Was knowledge of poisons included in the curriculum? It was only right that it should be. The president made reference to other matters, including current difficulties in the P.A.T.A., which he hoped would soon settle themselves, and the Chemists' Friends scheme. Loyalty was necessary if anything was to come of the latter. Previously Mr. F. C. Highfield (vice-president of the Association) had praised Mr. Peck's efforts in the cause of pharmacy. In his business, a prescription-book contained a century-old entry showing that pills with several ingredients had been supplied to a peer of the realm for a fee of 2d. In 1886, another entry was for six pills charged at 4d. plain and 6d. silvered. The question was whether present returns were proportional to the time and energy expended in qualifying. Mr. Highfield made a suggestion regarding pharmacists' widows. Some organisation should offer, he said, to take over a business left in charge of a pharmacist's widow and thus ensure for her a better interest on her money than if she were compelled to sell. Mr. F. H. Mylroi (president), answering the toast of "The West Middlesex Association," proposed by Mr. C. H. Foster (South-Eastern Chemists' Association), declared 1936 a red-letter year for two reasons: they could claim a vice-president of the Society as one of their own members, and they also claimed another member of the Council. Musical items were provided by Miss Ruby St. Claire (soprano) and Mr. David Grundy (tenor). Dinner gave way to dancing at 9.50. Between 10.30 and 11.0 a very popular cabaret show was supplied by Miss Gladys Harmer and a troupe.

The following were among those present: Mr. and Mrs. F. H. Mylroi; Mr. E. Saville Peck; Mr. and Mrs. T. Marns; Mr. and Mrs. H. Skinner; Mr. and Mrs. C. A. Noble; Mr. and Mrs. C. H. Foster; Mr. C. J. Palmer and Miss Palmer; Mr. and Mrs. H. G. Tibbett; Mr. and Mrs. J. Milner; Mr. V. C. Hewlett; Mr. F. G. Wells; Mr. S. R. Hughes (secretary); Mr. R. F. Edkins; Mr. R. J. Morton Sennett. Prizes distributed during the evening were sent by Coty (England), Ltd.; R. J. Reuter Co., Ltd.; Vinolia Co., Ltd.; and Erasmic Co., Ltd.

Harrow

A meeting of the Harrow Branch of the Pharmaceutical Society was held on January 23, when Mr. F. W. Adams (assistant secretary of the Society) gave an address on the Poison List and Rules to one of the Branch's largest attendances for some time. The chairman (Mr. F. J. Conduit) invited the meeting to stand in silence as a mark of respect to his late Majesty. After an interval for refreshments questions were put to the lecturer. Mr. Reynolds asked how the total amount of barbiturate substances was to be interpreted. Reply: "The doctor should indicate." Mr. Watts asked whether it was permissible to put the name of the dispenser on the back of the prescription, when the front, above the doctor's name, was full. "Yes, but so that it cannot be torn off." Mr. German inquired the position of a person who required strichnine to manufacture rat poison for his own use. "It will not be legal to sell strichnine for that purpose after May 1."

Liverpool

On January 28 Mr. H. N. Linstead, secretary of the Pharmaceutical Society, delivered an address before the Liverpool Chemists' Association on "The New Poisons Legislation." He was welcomed by an exceptionally large gathering. The president (Mr. G. L. Clubb) was in the chair, and in introducing the speaker said they still had the privilege of being inspected and they also had the privilege of paying at least a guinea a year for the shop registration fee. He ventured to suggest that the

last privilege would be with them when all the others had gone. In introducing his subject, Mr. Linstead remarked that he thought Mr. Clubb had indicated very clearly the general reaction of the ordinary member of the Society towards the new legislation. After giving details of the Pharmacy and Poisons Act and the work of the Poisons Board, Mr. Linstead said they knew that the Home Secretary had made certain alterations which permitted any trader who applied to be placed on the list of poison sellers kept by the local authority to sell lysol—a substance which, next to coal gas, was most widely used as a means of committing suicide. In addition to making alterations to the List, he had also altered portions of the Rules which they considered vital. These alterations had come as a great disappointment to the pharmacist members on the Board, but he could not say they had come as a surprise, and in considering them he asked them to look at it from a non-pharmaceutical point of view and to imagine themselves in the position of the Home Secretary. Even looking at it from the public point of view and not that of the pharmacist, the laxity with which lysol solutions were sold was, he considered, a disgrace to the public health authorities of this country. He did not think there was any probability of these regulations not becoming law. The Society, however, was not going to allow things to rest at that, and the Council were seeking an interview with the Home Secretary for the purpose of putting on record their point of view and, he hoped, getting from him an undertaking that local authorities were going to be kept "up to the scratch" in the matter of examining listed sellers of poisons shops. After a short discussion, Mr. J. L. Hirst proposed a vote of thanks, and in doing so suggested that they should aim at getting a supplementary Bill on the statute-book that would give to chemists the sole right to dispense medicines. In replying, Mr. Linstead said that he thought for the moment they wanted a rest from legislation. The matter of a supplementary Bill had already been discussed, but it was generally felt that such a Bill, unless it dealt solely with the internal affairs of the Society, would have small chance of success until they could educate the public up to the realisation of the pharmacist's great services to the national health.

London

On January 31 Mr. James Brown, a messenger employed by Idris, Ltd., was attacked while carrying money to his company's bank. He beat off his assailants, took the money to the bank, and was afterwards treated in hospital for his injuries.

The members of the Lodge of Good Fellowship held their Ladies' Festival at Frascati's Restaurant on January 29, when W. Bro. B. C. Somerset presided over a large assembly. Among those present were the following pharmacists:—Messrs. J. Keall, T. Marns (members of the Pharmaceutical Society's Council), F. T. Brazier, E. P. D. Bush, R. F. Edkins, D. A. Rees, E. Skues, G. A. Tocher, J. W. Quibell, R. W. Wenmoth and Hugo Wolff. During the evening Mrs. Somerset was presented with a silver tea service. The musical programme was under the direction of Mr. J. Keall, and the chief artist was Mr. Bryn Gwyn. Mr. J. W. Quibell, Golders Green, was chiefly responsible for organising this successful function.

Manchester and District

In Manchester County Court, on January 27, an action in which Mrs. Elsie Boulton, Gorton, who had been employed by Joseph Lamb & Co., druggists' sundriesmen, Hardman Street, claimed damages in respect of injuries received through her clothing catching fire, was settled on the terms of the firm paying Mrs. Boulton the sum of £42 and, with costs, £85 in discharge of the liability. Judge Leigh approved of the settlement.

A joint meeting of the Manchester Pharmaceutical Association and the district Branch of the Pharmaceutical Society was held at the Victoria Hotel on January 30, Mr. E. Walters (president of the Association) in the chair. "Ten Minutes Papers" were contributed by members. Miss Ivy Roberts, M.Sc., in a paper on "Our Changing Examinations," traced the history of examinations from the first examination in 1842, when students had no available classes and few text-books. Miss Roberts described the changes that had taken place in the training and examination of pharmacy students during the past twenty-five years. The change from oral to written examina-

tions in 1929 was made with the intention of limiting the element of luck present in oral examinations. The most outstanding feature of the new regulations was the introduction of zoology into the Preliminary Scientific examination, the introduction of physiology into the Qualifying examination. Zoology was a necessary preliminary for the proper understanding of physiology. Nobody would question the advisability of pharmacists having some knowledge of physiology to enable them to understand and discuss intelligently the substances they had to handle.

Mr. H. Steinman, in a talk about "Book-keeping for Pharmacists," described, with the aid of a blackboard, the system he had carried out in his own business. He suggested that the Society should consider the desirability of including in the curriculum the subject of business methods.

Mr. E. Berry, M.Sc., gave a paper on "Medicinal Plasters." He said all plasters were spread by hand until in 1826 William Mather had the idea of manufacturing them by machinery. At that time plasters could be placed under three headings, lead basis, balsamic, and isinglass. In the 'eighties of last century rubber-basis plasters were introduced. Mr. Berry described the method of manufacture in use then, the gradual improvements that took place, culminating in the calender process now in universal use. Mr. Berry dealt with the intricate machinery necessary for the calendar process, the preparation of the "dough," and the spreading of the plaster.

Mr. E. Cronin, in his paper on "How to Become a Representative," described the training a representative had to undergo in the offices, laboratories and various departments of his firm, preparatory to being sent on the road. In a concise and practical way Mr. Cronin gave helpful advice to young pharmacists thinking of taking up travelling as a career.

Mr. J. M. Rowson, B.Sc., read a paper on "A Student's View of Pharmacy." He said he had been impressed, on the death of the pharmaceutical chemist under whom he had been trained, by the reference of a medical officer of health: "He was a man whose skill and knowledge we respected and trusted." To-day the chemist, the parson and the doctor were regarded by the masses as unfailing authorities on all subjects, whether related to or removed from their professional callings. Our business or professional calling was determined by our own outlook and persistence. Types of apprenticeship could be separated into two classes: (a) to a pharmacist who regarded the practice of pharmacy as a profession, with a corresponding outlook; (b) to the pharmacist who was merely a shopkeeper. Mr. Rowson believed the majority of employers would give every assistance in the preparation of galenicals to apprentices who were keen to learn. He welcomed the new apprenticeship regulations, and the powers of inspection under the 1933 Pharmacy and Poisons Act. It appeared humorous and illogical to a young pharmacist to observe the torrent of criticism from a section of pharmacists opposed to inspection. The student of to-day was essentially practical, and preferred to dwell upon realities rather than Utopias. He entirely disented from the view that pharmacy students were being educated above their calling. He could visualise in years to come a true pharmaceutical profession, the chemists ranking with other University graduates. An animated discussion followed the reading of the papers.

Nottingham

Over 120 members and friends attended the annual dance of the Nottingham and District Branch of the Pharmaceutical Society at the Welbeck Hotel, Nottingham, on January 30.

The annual meeting of the Nottingham and District Branch of the Pharmaceutical Society was held at the Albert Hotel, Nottingham, on January 26, Mr. F. A. Bates in the chair. After the members had stood in silence at the request of the chairman, a resolution was passed recording the Branch's deep sense of the loss which the nation had sustained by the death of his late Majesty and expressing devoted loyalty to his Majesty King Edward VIII. The report and balance sheet were adopted. Mr. Reynolds proposed that the Council of the Society be urged to secure to pharmacists the right allowed to listed sellers to appoint one or two deputies. After some discussion the proposition was carried without dissent. Messrs. Newbold and Turton were re-elected auditors. A ballot for the Committee resulted as follows:—Miss Prince and Messrs. Tomlinson, Bentley, Beilby (A. E.), Ellis (W.), Sparshott, Bull, Shepherd, Freeman, Burrows, Clay, Hutchby, Green (J.) and Atherley. At a subsequent meeting of the

Committee the following appointments were unanimously agreed to: *Chairman*, Mr. C. E. Reynolds; *Vice-Chairman*, Mr. Wilson Moulds; *Acting Vice-Chairman*, Mr. J. Gretton; *Treasurer*, Mr. H. Middleton; *Secretary*, Mr. F. A. Bates. Mr. W. J. Clay, who resigned the secretaryship through ill-health, had held office for thirteen years.

Miscellaneous

COVENTRY CHAMBER OF TRADE retail section has appointed a subcommittee to promote a scheme for inducing Coventry people to buy from local shops. It is stated that £100,000 is taken out of the city each week. Of 3,332 private traders in the city only 120 are members of the association.

WINDOW-DISPLAY AWARD.—The result of "John Bull's" third national window-display contest has been issued. Subject to the rules and conditions of the contest, the second prize of £100 and a silver medal was awarded, for a display for Gibbs Dentifrice, to Letbe (Southfields), Ltd., chemists, 62 Brookwood Road, Southfields, London, S.W.18.

Scottish Notes

Brevities

The twenty-third annual meeting of the Chemists' Friendly Society was held in its registered office on January 30, Mr. D. L. Dewar (president) in the chair. The annual report and accounts were adopted; Mr. A. B. Gilmour was elected *Vice-President* and the retiring directors were re-elected. The chairman referred to increases in the Society and to the liberal scales of cash and additional benefits paid.

A monthly meeting of the Paisley and District Chemists' Association was held on February 3, when Mr. J. H. Simmons (sales manager of Jas. Robertson & Sons) addressed the members on "Salesmanship." Viewing the subject from behind a counter, the fundamentals of selling were four—attraction, interest, desire, action. Mr. Simmons pointed out that one must be truthful and have a sound knowledge of the goods one is selling to be a successful salesman. Mr. Simmons indicated seven mental states through which every buyer must pass. When the question of personality came up, Mr. Simmons gave it as his opinion that it is a much-abused and misunderstood word. Questions were asked by Messrs. Congalton, Scorgie and Young. Mr. Armit proposed a vote of thanks.

Edinburgh

"Human Biology and its Place in Modern Life" was the subject of a public address given by Professor R. C. Garry (University College, Dundee) on February 1. Professor Garry said that one of the most striking features of present-day development was man's growing control over his environment. The teaching of physiology was by no means comparable with the teaching of botany and zoology, which were put before the students in an objective fashion. Human biology awakened an awareness of the learner's own living processes. Two films demonstrating physiological processes were afterwards shown.

"Avoidable Errors in Examination Answers" were discussed by Mr. H. H. Campbell, B.Sc., A.I.C., M.P.S. (Heriot-Watt College), at the third meeting of the session of the Edinburgh Chemists' Assistants and Apprentices' Association at 36 York Place, Edinburgh, on January 24, Mr. F. J. Jackson (president) in the chair. Mr. Campbell began with a justification of the examination system. Despite prominence recently given to variations in marking by examiners, he believed a uniform standard existed in scientific subjects. A principal cause of failure lay in the students trying just to pass. Mistakes were made by not reading questions to see what the examiner wanted. Students should try to understand what was implied in such form of questions as "'Describe,' 'Show how,' 'How may,' 'Give an account of,' etc. Too much unwanted detail was almost as bad as its omission. The common faults of not numbering questions and not completing an answer when started were referred to. Modern text-books should be used in all subjects. Emphasis was laid on the importance, in the practical examination, of clean apparatus and systematic reporting of work while it was being carried out.

On January 29 members of the Association visited the sulphuric acid works of J. & J. Cunningham, Ltd., Leith.

Irish Notes**Chemists' and Students' Dance**

The eighth annual dance held by the pharmaceutical chemists and students at the Gresham Hotel, Dublin, on January 29, was an exceedingly successful and enjoyable function, and attracted a gathering of over 700 pharmacists and their friends from Dublin and district and from the Provinces. Dancing began at 10 p.m. and was kept up to the early hours of the following morning to an excellent programme of dance music supplied by the Gresham Band. During the night valuable spot prizes were awarded, while a delightful gala touch was given to the proceedings when colourful carnival novelties were distributed shortly after midnight. The capable committee responsible for the success of the dance were Messrs. F. Cavanagh (president), T. Gleeson (vice-president), T. B. O'Sullivan (treasurer), D. O'Dwyer (secretary), L. Cashman, S. Condron, G. Tracey, D. Murphy, S. Murphy, P. Redmond, M. Leonard, C. Gilmore, P. Lalor, F. E. Smith, M. Walsh, and B. Duffy. The large attendance included Mr. J. O'Rourke (vice-president of the Pharmaceutical Society of Ireland); Mr. M. Nolan and Mr. M. Drumgoole (president and secretary respectively of the Irish Union of Distributive Workers and Clerks.) (Picture on p. 151.) The following firms presented spot prizes, or sent donations:—

Ilford, Ltd., Jas. Crean & Sons, Kodak, Ltd., Gillette Razors, Ever-Ready Lamps, May, Roberts & Co., Ltd., Thos. Kerfoot & Co., Ltd., Thos. Begges, Gilbeys, Ltd., Irish Pharmaceuticals, Ltd., Boileau & Boyd, Ltd., Harwood Bros., Wilcox, Jozean & Co., Ltd., R. J. Groves, Tokalon Co., Evan Williams & Co., William Gaw, Aspro, Ltd., Hamilton Long & Co., Ltd., Adal Razor Co., R. H. G. Boys, Hayes, Conyngham & Robinson, Ltd., Reckitts, Ltd., Ayrton,

Saunders & Co., Ltd., Parke, Davis & Co., Morrow & McKay, Potter & Moore, Ltd., Wigglesworth, Ltd., Sparklets, Ltd., Dundalgan Press, Varian & Co., A. de St. Dalmas, Ltd., P. J. Carroll & Co., Crazy Crystal Co., Irish Glass Bottle Co., The British Drug Houses, Ltd., National Products, Dublin Drug Co., S. T. Smith, Nyal Co., Ovelle, Ltd., Beechams, Ltd., Neaves' Food, Ltd., Jeyes Sanitary Compound Co., Ltd., F. W. Hampshire & Co., Ltd., C. H. Phillips & Co., Hugh Moore & Co., Foster & McClellan, Evans Sons Lescher & Webb, Ltd., Adamsons, Juventa, Johnson Brothers, Thos. Guest & Co., Ltd., Robert Briscoe & Co., Victor E. Hanna, Dixon & Co., Griersham & Oldhams, Coty (England), Ltd., and Leonards.

Brevities

Most of the pharmacies in Northern Ireland closed for several hours on the day of the funeral of his late Majesty, except for the sale of urgent medicines.

Mr. Fred Storey, Ph.C., was re-elected secretary of the Irish Great Northern Stockholders Association at the annual meeting in Belfast on January 30. Tributes were paid by several speakers to his work on behalf of the Association.

At a further conference held between representatives of the Irish Drug Association and the Irish Union of Distributive Workers and Clerks, in connection with the demand made for increased wages and shorter working hours for chemists' assistants, there was a representative attendance of employers and employees from Dublin, Cork and Limerick. After lengthy discussion the I.D.A. representatives put forward a series of proposals which it was agreed should be referred back to the general bodies on both sides. The Committee of the Chemists' Assistants' Branch met at Cavendish House, Dublin, on February 3 and decided to place the I.D.A. offer before a general meeting of the Union summoned for February 7.

Topical Reflections

By Xrayser

The Manchester Meeting

on the Chemists' Friends scheme, reported on pp. 121 and 122 of your last week's issue, appears to have been a good one, as regards both numbers present and information elicited. The suggestion that a £10 patent-medicine licence fee would shut out opposition was made in apparent forgetfulness that such a fee would be double-edged and would hit the pharmacist very badly. Certainly the number of patent-medicine vendors at the present time should provide as many "points of distribution" as the most ambitious manufacturer outside the scheme could wish for. The co-operative situation regarding Chemists' Friends goods is not too satisfactory, in my view. A co-operative society with a drug department managed by a qualified manager fulfills the N.P.U. condition of "legally trading," but what is to prevent other branches of the same society (perhaps in the same town) where there is no drug department from getting supplies of C.F. goods from the one department and selling them? The onus is on the manufacturer, it is true, and presumably he will have to rely upon the conditions upon which these special goods are sold and hope for the best. I am still of the opinion that some retailers will cause most trouble to the Executive of the N.P.U., inasmuch as although they may agree to the spirit of the scheme and even vote for enthusiastic resolutions supporting it, they may not withdraw from their windows and counters show material of those manufacturers not enrolled in the scheme. I am glad to note that, so far as manufacturers are concerned, the scheme is growing.

The Report

of the Board of Examiners to the Pharmaceutical Society, a comment on which appears on p. 126, is provocative of thought. I appreciate the clear way in which Dr. Bryant summarises the position as revealed by it. I am struck with his remark: "It [the Council] may either extend the courses [for the Preliminary Scientific] or reduce the scope of the examination. The Council cannot have it both ways." In another part of his article he suggests a method of doing away with the *viva voce* part of the examination and the

performing of a few operations as a test of the candidates' ability, and in their place he would substitute visits of members of the Boards of Examiners to the centres where candidates are actually doing their work without the nervous strain often produced by conditions in the Edinburgh and London examination rooms. Anything that makes for more practical training of future pharmacists has my hearty sympathy. The young pharmacists who are turned out by the examination mill to-day are in scores of cases badly lacking in the practical details of their calling. They may know the why of things; they do not always know the how. If they did, wholesale houses would not get such ridiculous questions fired at them, questions which reveal how inadequate the practical teaching of many young qualified men has been.

The Vice-President

of the Society was certainly not in an optimistic mood at Birkenhead (p. 120). The president of the Branch had asked some pertinent questions when proposing the toast of "The Pharmaceutical Society," and when the vice-president replied he quite frankly admitted that the Society had received that night such a "telling off" as it had not had before. He went on to strike several pessimistic notes. Pharmacists were passing through troublous times. Things were not going as well for pharmacy as they had hoped they would do; the new Pharmacy and Poisons Act was not altogether satisfactory to them. He was afraid that the deputation would not get the Home Secretary to alter his decision. He suggested that when they (the Council) had completed their programme for pharmacy, pharmacists would be far better off; but it would not be this year, nor next. What admissions from one who is doubtless "in the know," and what a change from the optimistic speech of the usual after-dinner speaker sent down from Bloomsbury Square! If this is how our leaders feel on the position, it is no wonder that we, the rank and file, get depressed sometimes when we indulge in a little quiet thinking. The only consolation offered by the vice-president was that pharmacists were better off than they were thirty-five years ago: I am beginning to doubt such a statement. Fortunately we have the Benevolent Fund, which seems to be in a good position. We shall want it yet!

Legal Reports

Wine-liscence Applications.—At Preston Brewster Sessions, on February 3, the chairman asked what constituted medicated wines when two chemists applied for wine licences. Mr. William U. Tyson, manager of Taylors (Cash Chemists), Ltd., 215 Ribbleton Lane, Preston, sought a licence for the premises. Counsel said: "It has been the custom to grant these licences for about eight brands of wines. For the life of me I cannot see why a full chemist's licence should not be granted." He submitted a list of thirty-four brands of medicated wines which applicants proposed to sell. Preston Licensed Victuallers' Association objected to the inclusion of port, sherry and burgundy, and these three varieties were withdrawn. The application was granted for the sale of medicated wines. The Bench wished it to be known that other chemists, who had licences with restrictions, must apply for permission to sell the wines in the list. A similar application by Mr. Fred A. Brooks, 119 Waterloo Road, Ashton-on-Ribble, was also granted.

ACTION WITHDRAWN.—We have received the following letter from Herbert J. Davis, Berthen & Munro, solicitors, Prudential Buildings, 36 Dale Street, Liverpool, 2:—" . . . We are instructed by our clients [Clay & Abraham, Ltd.] to write to you to confirm that the action brought against them in the Chancery Division by James Scott St. Barbe Baker and Edward Hack, Ltd., has been absolutely withdrawn by those Plaintiffs on January 24, 1936. It is, of course, a term of the withdrawal that the Plaintiffs will have to pay the costs of our clients, the Defendants, in the action."

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

BRIDGE PHARMACY, LTD. (P.C.).—Registered in Dublin.—Capital £100. Objects: To carry on the business of chemists, druggists, etc. The first directors are not named.

CREME SIMON, LTD. (P.C.).—Capital £1,000. Objects: To purchase and sell essences, lotions, oils, soaps, cosmetics, creams, toilet requisites, etc. R.O.: 65 Holborn Viaduct, E.C.

JUNE PERFECT, LTD. (P.C.).—Capital £1,000. Objects: To carry on business as wholesale and retail dealers in hairdressers' sundries, perfumery, etc. R.O.: 55 Oak Grove, Cricklewood, N.W.2.

ALLENS CHEMISTS, LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, etc. R.O.: 186 Bishopsgate, E.C.2.

LEACH & SON (MACCLESFIELD), LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of wholesale and retail chemists and druggists. Solicitors: Scott, Start & Mottershead, 34A Market Place, Macclesfield.

LEAVERS HERBALISTS, LTD. (P.C.).—Capital £1,000. Objects: To carry on business as manufacturers of and dealers in herbal preparations and medicines, etc. Herbert H. Thatcher, "The Moorings," Charlemont Road, Walsall, director.

BRITISH OXYGEN CO., LTD.—To commemorate the fiftieth anniversary of the company, directors recommend capitalisation of part of reserves by free distribution of two fully-paid bonus ordinary shares of £1 each for every £7 ordinary stock held. These shares will, when issued, be converted into ordinary stock and will rank *pari passu* with existing ordinary stock for participation to full amount in any final dividend to be declared for 1935.

SOUTHALLS (BIRMINGHAM), LTD.—The accounts for the year ended December 31, 1935, show that, after providing for income tax, directors' remuneration, depreciation and bad debts, a cash bonus of £4,120 to employees and staff, and

£2,470 to pension fund, there is a balance of profit for the year of £84,377 15s. 2d. To this is added the sum of £22,113 7s., carried forward from last year, making a total of £106,491 2s. 2d. From this has to be deducted the interim dividend at 6d. per share, free of tax, £19,500, leaving £86,991 2s. 2d., which the directors recommend should be appropriated as follows:—Final dividend of 6d. per share, free of income tax (making 1s. per share, free of tax, for the year), £19,500; transfer to reserve fund, £45,000; balance to be carried forward to next account, £22,491 2s. 2d. It is the intention of the Board to distribute by way of bonus one ordinary share for every five shares held, fractions to be dealt with at the discretion of the directors. In order to provide the necessary capital for the purpose, your directors propose to appropriate the sum of £39,000 from the company's internal reserve fund. The surplus arising from the sale of the drug section to Sangers, Ltd., has been utilised in strengthening the company's internal reserves. Mr. E. W. Mann and Mrs. F. M. Sharp have retired from the board. The director who retires in accordance with the Articles of Association is Mr. W. F. Southall, who, being eligible, offers himself for re-election. The directors wish to express their thanks to all those who have assisted in making the business a success in 1935. The thirty-ninth ordinary general meeting will be held at the Chamber of Commerce, New Street, Birmingham, on Monday, February 10, 1936, at noon.

Private Arrangement

Wm. Keeling, 33 Broad Street, Welshpool, chemist and druggist. A meeting of the creditors herein was held recently at Shrewsbury, when a statement of affairs was submitted showing liabilities of £887 3s. 9d., of which £762 7s. 3d. was due to unsecured creditors, and there was a partly secured creditor for £349 16s. 6d. holding security valued at £225, leaving £124 16s. 6d. to rank for dividend. The assets totalled £523, from which had to be deducted preferential claims of £122 5s. 5d., leaving net assets of £400 14s. 7d., or a deficiency of £486 9s. 2d. It was reported that debtor had executed a deed of assignment in favour of Mr. Riddell as trustee, but the deed had not been registered. It was resolved that a supplementary deed of assignment be executed in favour of Mr. Riddell and Mr. P. S. Booth.

Voluntary Liquidations

Norrex Trading Co., Ltd., 14 Clifford Street, London, dealers in cosmetics. At the statutory meeting of the creditors of the above it was reported that the liabilities were £3,663 8s. 4d., of which £1,759 15s. 4d. was due to the trade, and the balance of £1,903 13s. to cash creditors. After allowing £44 10s. 2d. for preferential claims the net assets were £1,418 19s. 6d., or a deficiency of £2,244 8s. 10d. It was decided that the voluntary liquidation of the company should be continued with Mr. Henderson, of 15 New Burlington Street, London, W., as liquidator, with a committee.

Zena (Cosmetics) Ltd., Manchester. At the statutory meeting of the creditors held recently at Manchester, a statement of affairs was submitted which showed ranking liabilities of £595 19s. 11d. The assets totalled £530 15s. 3d., and were estimated to realise £220. After allowing £74 for preferential claims the net assets were £146, or a deficiency, so far as the creditors were concerned, of £449 19s. 11d. It was decided that the voluntary liquidation of the company should be continued with Mr. E. C. Smith, of 44 Brazennose Street, Manchester, as liquidator.

Gazette Bankruptcy Acts

RECEIVING ORDER

WILLIAMS, J. D., 26 High Street, Blaenau Festiniog, Merioneth, chemist.

Stock Exchange Prices

£1 shares unless otherwise stated	Nov. 29,	Dec. 31,	Jan. 31,
	1935	1935	1936
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord.	23 9	23 9	23 9
Amalg. Dental Co., 8% Prefd. Ord.	26 3	26 3	27 6
Deferred £1 ...	9 6	9 0	12 6
Aspro, Ltd. ...	20 0	20 0	20 9
Ayrton, Saunders & Co. 7½% Pref.	25 0	23 6	24 3
Beechams Pills, Deferred 5s. shares	35 0	39 9	49 3
Benger's Food, Ord. ...	40 6	40 6	43 6
Benzol & By Products cum. part. Pref.	1 6	1 9	1 3
Berger (Lewis) & Sons, Ord. ...	65 0	66 3	66 9
Blundell Spence & Co. ...	17 6	18 0	18 9
Boake (A.), Roberts & Co., 5% Pref.	20 0	20 0	20 0
Boots Pure Drug, Ord. 5s. shares ...	48 9	49 6	55 3
Boots Pure Drug, 7% "A" Prefd. Ord.	32 3	32 0	32 3
Boots Cash Chemists (S.), 6% "A" Pref.	29 0	28 10½	29 3
Borax Consol'd., Dfd. Ord. ...	17 6	20 9	21 0
Bovril, Ord. ...	26 0	27 3	27 6
Defd. ...	18 0	18 1½	18 3
British Cyanides, Ord., 2s. shares ...	3 0	3 1½	3 7½
British Drug Houses, The, Ord. ...	18 9	18 0	21 3
British Glues & Chemicals, 4s. Ord.	7 10½	7 7½	8 0
British Oil and Cake Mills, Prefd. Ord.	49 0	48 9	48 6
British Oxygen, Ord. ...	110 6	113 9	127 6
British Photo, Indus., 6% Cum. Pref.	3 0	3 0	3 4½
Burt, Boulton & Haywood, Ord. ...	19 9	19 6	19 6
Bush (W. J.) & Co., 5% Pref. £5 ...	110 0	108 9	115 0
Callard, Stewart & Watt, Ord. ...	3 0	3 3	3 9
Cooper, McDougall & Robertson, Ord.	36 3	38 9	37 0
Croftfield (Joseph) & Sons, 6½% Pref.	31 9	31 9	32 0
Dubarry Perfumery, Ord. 1s. ...	5 9	5 10½	6 3
" 7½% Pref. ...	26 6	26 6	26 3
Eastman Kodak Com. (no nom. value) ...	\$162	\$158	\$158
Eno Propriet'y, Ord. 5s. ...	9 9	9 6	10 9
Evans Sons Lescher & Webb, Ord. 6s. 8d. shares	4 3	4 3	4 6
6% cum. part. Pref.	7 6	7 6	7 6
Field (J. C. & J.), Ord. ...	25 0	25 0	26 9
Galloway (P. H.), Ord. 2s. ...	3 6	3 7½	3 9
7½% Cum. Pref. ...	27 0	26 6	26 6
Genatosan, Ltd., 1s. ...	7 3	7 6	7 4½
Gossage (William), 6½% Pref.	29 6	29 6	30 6
Griffiths Hughes (Kruschen) Ord. ...	56 9	57 6	58 6
Grout & Co., Ord. ...	26 3	25 0	26 3
Hodders, Ord. 1s. ...	6 0	6 0	4½ 0
Ilford, Ltd., Ord. ...	24 9	26 3	32 3
" 6% Pref. ...	26 3	26 3	26 3
Imperial Chemical, 7% Pref. ...	33 6	33 9	34 0
" " Ord. ...	37 0	37 0	37 6
" " Defd. 10s. ...	8 10½	9 0	9 0
Intern. Sponge Importers, 6% Pref ...	8 9	8 6	8 9
Kent (G. B.) & Sons, 5½% Pref. ...	2 6	3 0	2 10½
Knight (John), 25% Prefd. Ord. ...	97 6	101 3	102 6
Laporte (B.) & Co., Ltd., Ord. ...	117 6	116 3	130 0
Lever Bros., Ltd., 7% Pref. ...	32 0	32 3	33 0
" " 8% Pref. ...	33 3	33 6	33 9
" 20% Prefd. Ord. £1 ...	78 6	77 6	80 0
Lewis & Burrows, Ord. ...	21 3	21 3	21 3
6% Pref. ...	21 0	21 3	21 3
Liebig's Ext. of Meat, Ord. £5 ...	£14½	£14½	£15½
Macleans 6½% Red. Pref. ...	21 3	21 3	21 7½
Mellin's Food, 6% Pref. ...	1 3	1 0	1 0
Nathan, J. (Glaxo), 7% Pref. ...	23 6	24 6	24 3
" 8% Prefd. 10s. ...	15 0	15 0	14 9
" " Ord. 1s. ...	4 3	5 0	5 7½
Pears (A. & F.), 5% Deb. £100 ...	£112	£112	£110½
Reckitt & Sons, Ord. ...	116 3	115 0	120 0
Salt Union, Ord. ...	42 6	44 6	48 0
Sangers, Ord. 5s. ...	23 6	23 3	23 10½
" Sanitas", The, Co., 9% Pref. ...	32 0	32 6	33 9
Sanitas Trust, 10% partic. Pref. ...	30 9	30 0	30 0
Smith (Stephen) & Co., Ord. 5s. ...	12 0	12 9	12 9
Spratt's Patent, Ord. ...	72 6	76 0	86 3
Stevenson & Howell, 6½% Cum. Pref. ...	26 3	26 3	26 3
United Glass Bottle Man., Ord. ...	44 3	44 9	41 6
Veno Drug Co., 8% Pref. ...	28 0	27 0	26 3
Virol, Ltd., Ord. ...	28 9	28 9	29 9
" 7% Pref. ...	25 6	25 6	25 6
White (A. J.), Ltd., Ord. 10s. ...	20 4½	21 0	21 6
White (Timothy) & Taylors, 7½% Pref. ...	30 3	30 9	31 9
Ord. 5s. ...	23 0	22 6	25 9
Woodlands Chemists, Ord. 5s. ...	4 0	2 9	2 6
Wright, Layman & Umney (1932), 7% cum. Pref. ...	22 6	22 6	24 0
Yorkshire Indigo & Col. Dyers, 5s. Ord. ...	0 3	0 3	0 3

"C. & D." Retail Price List

The index of selling prices for drugs in January remained at the same figure as in December: 147.0. This figure is 2.7 in advance of the corresponding figure for January 1935. There are several changes in prices, the most notable one being Ext. ergot. liq., B.P., 1914. The other changes are small in amount. In surgical dressings the index figure is again 136.2 (unchanged since March 1935). The changes in selling and dispensing prices for February are set out below:—

Cost	Selling Price					
	d.	per	16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
28 oz. Aether aceticus	—	—	3 9 0 7			
7 oz. Chloramina	—	—	1 1 0 2			
168 lb. Ext. ergotae liquidum '14	—	—	6 1 1 0 4			
16 oz. Guiacol. carbonas	—	—	2 4 0 4			
30 lb. Ol. camphora ess. fusc.	—	—	1 1 0 4			
14 oz. Ol. limonis	—	—	2 0 4			
15 oz. Ol. limonis (Messina)	—	—	2 3 0 4			
7 oz. Salol	—	—	1 1 0 1			
22 ea. Elastic adhesive bandage N.H.I. 2½ in.	ea.	2 6	—	—		
26 ea. Elastic adhesive bandage N.H.I. 3 in.	ea.	3 0	—	—		
212 doz. Lints, M.O.H. (sealed pkts.) Plain, 16 oz.	2 3	—	—	—		
Plain, 8 oz.	8 oz.	1 3	—	—		
Plain, 4 oz.	—	0 9	—	—		
Plain, 2 oz.	—	2 oz.	0 5	—		
Plain, 1 oz.	—	—	0 3	—		
Boric, 16 oz.	2 1	—	—	—		
Boric, 8 oz.	8 oz.	1 0	—	—		
Boric, 4 oz.	—	0 7	—	—		
Boric, 2 oz.	—	2 oz.	0 4	—		
Boric, 1 oz.	—	—	0 3	—		
Bandages (completely wrapped)						
Open wove, white (water dressing) : M.O.H. 4 in. × 6 yd.	—	—	each	0 4		
6 in. × 6 yd.	—	—	each	0 6		
Cotton-wool (net weight pkts.)						
Medium (M.O.H.) oz.	—	—	0 2	—		
Med. (M.O.H.) 4 oz.	—	0 7	—	—		
Med. (M.O.H.) 16 oz. .. 1 6	—	—	—	—		

New Books

Penney, W. G.—*The Quantum Theory of Valency*. 6½ in. by 4½ in. Pp. 95. 2s. 6d. Methuen & Co., Ltd., 36 Essex Street, London, W.C.2. [After an introduction, the chapter-headings are: The Interaction of Two Hydrogen Atoms; The Method of Molecular Orbitals; The Method of Localised Pairs; Energies of Activation and Resonance. A bibliography is appended. A sound grasp of mathematics is needed in order to follow the author's exposition.]

Delgado, F. A.—*The Professional Pharmacy*. 2nd edition. 10 in. by 6½ in. Pp. 106. 25 cents. The American Pharmaceutical Association, 2215 Constitution Avenue, Washington, U.S.A. [The second edition of "an analysis of prescription department activities" carried out under the auspices of the U.S. Department of Commerce. An idea of the scope of this elaborate survey may be obtained by consulting an editorial article in the C. & D. of June 11, 1932, and an article by Mr. Herbert Skinner in our issue of May 6, 1933. Stock, frequency of prescribing and cognate facts are tabulated with precision.]

SHELVED.—"The only turnover your product gets is when we dust it!"—From an advertisement in "The American Perfumer."

British Pharmaceutical Conference

THE following programme for the Bournemouth meeting of the British Pharmaceutical Conference on June 22-26 has been provisionally adopted:—

MONDAY, JUNE 22

- 3.30 p.m. Opening session at Town Hall.
- 4.30 p.m. Tea in Town Hall lounge.
- 8.0 p.m. Reception by the Mayor of Bournemouth at the Pavilion.

TUESDAY, JUNE 23

- 10.0 a.m. Science session at Town Hall.
- 12.30 p.m. Official photograph on Pavilion Terrace.
- 1.0 p.m. Lunch at Pavilion.
- 2.0 p.m. Ladies' excursion.
- 2.15 p.m. Science session at Town Hall.
- Branch representatives' meeting at Town Hall.
- 7 for
7.30 p.m. Banquet at Pavilion. Dancing will be available in the restaurant at the conclusion of the banquet.

WEDNESDAY, JUNE 24

- 9.30 a.m. Meeting of branch secretaries at Town Hall.
- 10.0 a.m. Science session at Town Hall.
- 11.0 a.m. Branch representatives' meeting at Town Hall.
- 1.0 p.m. Lunch at Pavilion.
- 2.15 p.m. Golf competition for the Edmund White trophy.
- Bowls competition for the London challenge cup.
- 8.30 p.m. Dance at the Pavilion.

THURSDAY, JUNE 25

- 10.0 a.m. Science session at Town Hall.
- Ladies' excursion.
- 1.0 p.m. Lunch at Pavilion.
- 2.15 p.m. Science session at Town Hall.
- 4.0 p.m. Closing session at Town Hall.
- 8.30 p.m. Dance and cabaret at Pavilion.

FRIDAY, JUNE 26

- 10.0 a.m. Excursion.
- 8.30 p.m. Smoking concert at Headquarters Hotel.

The Executive have reviewed the arrangements for the Sports Day of Conference week. It has been decided that as the main excursion is now to be held on the Friday, sports competitions should not be arranged for that day but instead should be arranged for one afternoon, preferably that of Wednesday (or of a day other than that on which the banquet is held), and that this afternoon should be kept free from any other Conference or meeting. On that afternoon competitions will be arranged for the Edmund White golf trophy, the London challenge cup for bowls and such other scratch competitions for golf, bowls, tennis, etc., as the Local Committee may decide if there are sufficient entries.

The book of Conference tickets will include all functions from Monday to Friday inclusive, and no extra charge will be made for sports other than a 1s. entrance fee provided for in the rules for the competition for the Edmund White golf trophy. The Edmund White golf trophy was presented by the late Mr. Edmund White for annual competition by members of the Conference with a full Conference ticket. The competition is by stroke play over 18 holes. Entries with competitors' club handicap and signed by the secretary of their respective clubs must be sent, not less than one week before the Conference begins, to the local secretary, together with an entrance fee of 1s., which is contributed to the fund from which a replica is purchased. The London challenge cup for bowls is competed for annually between rinks representing England and Scotland (copies of the rules governing these competitions will be issued with the application forms for Conference tickets).

Drugs and the Prescriber

THERE is a legion of drugs concerning each of which some interesting revelation might be made. . . . Dosage would seem to retard many who would aspire more hopefully to combine a basis, an adjuvant, a corrective and a vehicle. Dosage is a difficulty and as such will remain, for it varies with age, sex, physique, the hour, the climate, the season and sensitivity. The pharmacodynamical dilettante would even attempt to establish his patient's geographical and psychological orientation in vindicating the virtues of scientific therapy.

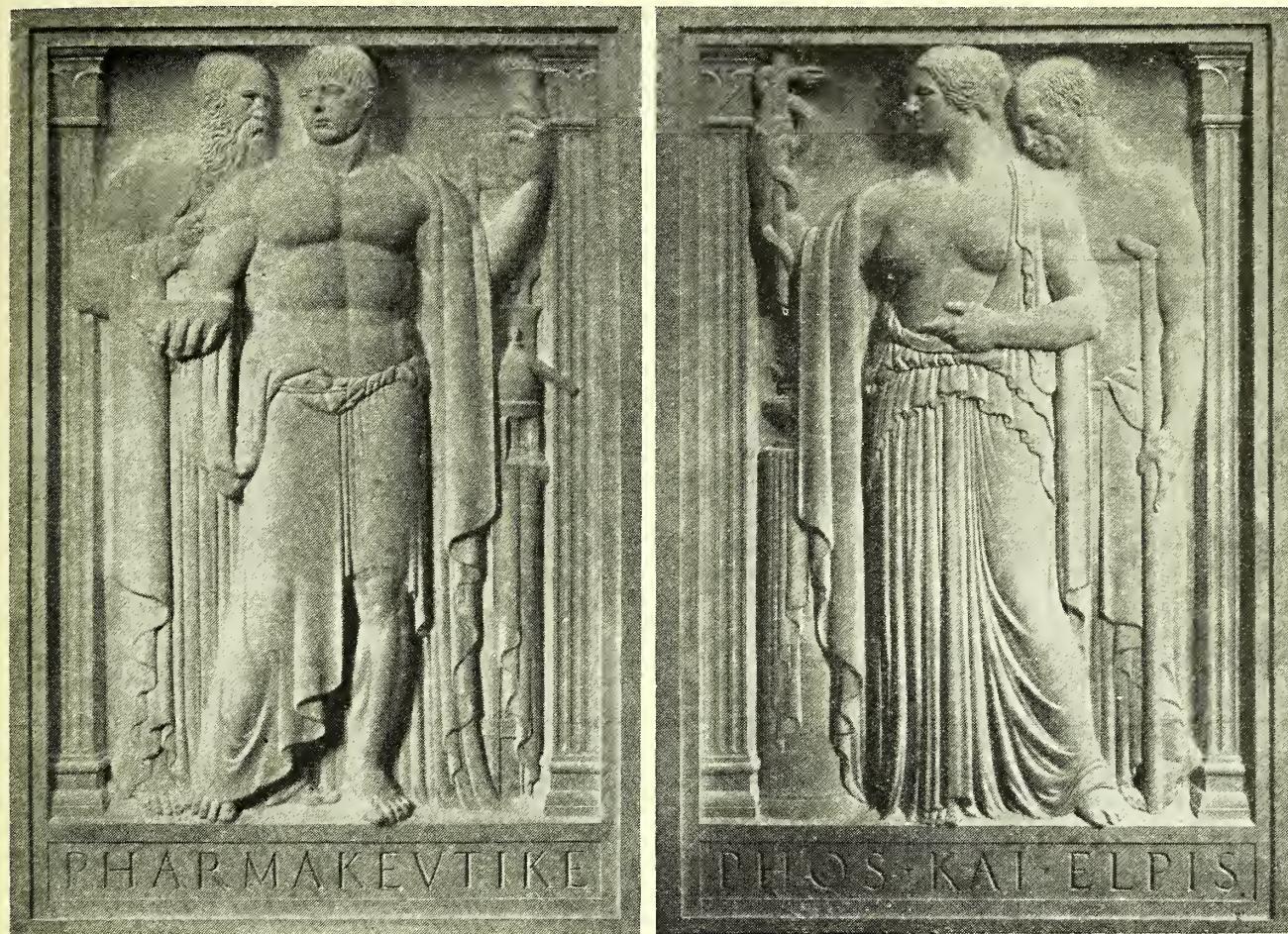
Official measures are arbitrary and might sometimes be considered lacking in quantity for benefit, while again, the amount seems to err from generosity. Calomel, now reduced from five grains to three, for red-haired people is still excessive. It should be always prescribed with alkali. Let us ever distinguish between the subchloride and the deadly corrosive sublimate of mercury. Anti-diphtheritic serum and extract of pituitary, posterior lobe, sometimes fail posologically from over-caution. These I mention as mere examples. The neophyte should be induced to comprehend disease in terms of remedies. It matters not to the patient what the histological picture of his pathological position represents, nor cares he whether the eosinophiles or the basophiles preponderate.

Far be it from me to deprecate those ancillary sciences without which medicine would degenerate into empiricism, but I would protest against ecstatic enthusiasm engendered by pictures to the exclusion of remedial measures of more consequence to the morbid. Experiments *in vitro*, like many prescriptions, may be impossible of interpretation. It seems to me that pharmacology in general is more closely allied to pathology than to medicine. For might we, with profit to the patient and perhaps to ourselves, envisage, with this duality of advantage, not only the virtues but the vices of orthodox therapy. The bronchial addict of unrestrained creosote complains of her lumbar ache and we bind the baleful back with belladonna, yet we forget that the pain may be renal and the creosote is the etiological factor of albuminuria. Yet again to those in quest of tonics, the fashionable demand in this neurotic era, are we tempted to yield the stimulus of strychnine, when, rather, a calming chloral and a benign bromide would bequeath to the hectic aspirant to corporal ease a precious heritage of physical complacency and mental repose.—From "The Ramifications of Therapeutics," by Dr. John Shiel, Ph.C., in "The Irish Journal of Medical Science."

Auditing N.H.I. Accounts

CHEMISTS are hedged about by regulations and tests during the performance of their contractual duties as insurance dispensers to such an extent that they may well feel, on sending their prescriptions up at the end of the month, that they have earned the full value allowed by the Tariff. They need have no misgivings about receiving the full allowance for each prescription, for the operations of pricing are watched closely by interested parties. The chemists' own representative body in each area, the pharmaceutical committee, undertakes a close check of the prescriptions after they have been priced through the medium of the N.P.U. Checking Bureau. Both over- and under-charges, when found, are reported each month, and adjustments are the subject of agreement between the insurance committee and the pharmaceutical committee of the area concerned. Chemists' payments are made from national funds, and therefore the Treasury has to be satisfied that these payments are correctly calculated. A Government auditor visits each pricing bureau periodically and conducts an exhaustive examination of the prescriptions. Adjustments are made where necessary. Chemists, therefore, may rest satisfied that the N.H.I. machinery includes efficient safeguards for their interests as well as for those of insured persons.—VIATOR (2/10).

IN OTHER WORDS.—"The following example is, I think, worthy of record. It concerns the habits of a moth:—'It would appear from what evidence is available that the act of oviposition is immediately stimulated by the crepuscular diminution in the intensity of illumination, and the rise in relative humidity as the diurnal temperature decreases.' I believe that this merely means: 'Egg-laying seems to be stimulated by twilight and the dampness of evening.' "—Sir Francis Dyke Acland in "The Times."



News in Pictures

Above : Bas-reliefs at the American Institute of Pharmacy (see *C. & D.*, May 19, 1934, p. 557). The left-hand panel represents the advancement of Pharmacy (the early pioneer looks on at youth stepping out); the right-hand panel depicts Hope leading the invalid towards Light.

Below : Dublin chemists' and students' dance (see "Irish Notes").

Right : A lecture on "Anti-gas Precautions" organised by Westminster City Council for staffs of business houses.

Lower right-hand : Students at the London Academy of Beauty Culture, where anatomy, massage, make-up and allied subjects are taught.



Pharmaceutical Society of Great Britain

Council Meeting

THE most obviously interesting question on the agenda at the February meeting of the Pharmaceutical Society, held at 16 Bloomsbury Square, London, W.C.1, on February 5, was one which was not discussed in public. It was a notice of motion by Mr. Dick as follows:—"To move that this Council immediately takes steps to have the proposed alterations by the Home Secretary to the recommendations of the Poisons Board raised in the House of Commons with a view to having them modified or withdrawn." The secretary reported that he had not yet received an official reply to the request of the Council that the Home Secretary would receive a deputation concerning the modifications made in the List and Rules. Mr. Dick's motion was seconded by Mr. Skinner. After discussion, Mr. Rowsell proposed, and Mr. Parry seconded, the following amendment, which was carried: "That the president be requested to summon a special meeting of the Council in the event of the Council's request for a deputation being refused."

TUESDAY'S PROCEEDINGS

Among the items of business transacted at the Council meeting on February 4 were the following:—

A letter from the Edinburgh and South-East of Scotland Branch conveying a resolution on the action of the Home Secretary in "turning down the advice of the Poisons Board to keep such powerful and dangerous poisons as lysol, salts of lemon, and the strong acids in Part I" was received. A resolution from the Luton and District Branch of the National Pharmaceutical Union on the advertising of proprietaries carrying "a grossly inadequate rate of profit" was referred to the Publications Committee.

The secretary reported upon correspondence with the Co-operative Union concerning the method whereby the Union would advise its constituent societies whether a particular branch was carrying on a business comprising the retail sale of drugs for the purposes of Section 9 (1) of the Pharmacy and Poisons Act, 1933. The Council approved the action taken.

DEATH OF KING GEORGE V

THE PRESIDENT, at the outset of the meeting on February 5, made appropriate reference to the death of King George the Fifth and then proceeded to refer to King Edward VIII. An address of condolence with and congratulation to his Majesty was approved.

DEATHS OF PHARMACISTS

THE PRESIDENT referred in sympathetic terms to the deaths of two men well known in pharmacy, Mr. Walter Frederick Gulliver and Mr. Frank Harris Alcock.

PRESENTATION

THE PRESIDENT announced that another presentation had been made to the Council by Mr. W. H. Quarrell, who had sent a portrait of Henry Field (1755-1837). Henry Field held the position of apothecary to Christ's Hospital, and was deputy-treasurer and later treasurer of the branch of the Society of Apothecaries instituted to supply drugs and medicines to their members, ultimately extended to the Navy, the East India Company and the public.

ELECTIONS AND RESTORATIONS

Sixty-six persons were elected as student-associates and twenty-seven persons were restored to the Registers of Pharmaceutical Chemists and Chemists and Druggists. The registrar reported that since the last meeting ninety-seven persons had been registered as apprentices or students.

REGISTRAR'S REPORT

The registrar submitted his report for the year 1935. The following summary embodies the chief features:—

The number of apprentices or students registered is 1,097 (1,283 in 1934). The examinations in London for the year

show the following figures:—Pharmaceutical Chemist, 89 candidates, of whom 36 were successful (in 1934 the respective numbers were 67 and 25) and 9 passed as chemists and druggists (5 in 1934); Qualifying, 821, of whom 299 passed (in 1934 the corresponding numbers were 736 and 320). In Edinburgh there were 15 candidates for the Pharmaceutical Chemist, of whom 6 were successful (in 1934 there were 8 successful candidates out of 16 entrants) and one passed as a chemist and druggist; for the Qualifying, 366 candidates, of whom 186 passed (in 1934 the numbers were 318 and 191 respectively). Candidates for examination in referred subjects are not included in these figures. The number of pharmaceutical chemists on the Register on December 31, 1935, was 1,292, and of chemists and druggists 20,988, a total of 22,280. (In 1934 the respective numbers were 1,488, 20,663 and 22,111.) The register of superintendents of bodies corporate in Great Britain, and of firms or partnerships in Scotland, contains 1,854 names (1,820 in 1934). In 108 cases of alleged infringement of the Pharmacy Acts proceedings were instituted (151 in 1933). The number of shops inspected with a view to ascertaining whether a certificate of qualification was exhibited was 6,406 (7,145 in 1934), and 3,398 "drug stores and other shops" were visited (3,647 in 1934).

ORGANISATION COMMITTEE

Various resolutions suggested for discussion at the Bournemouth meeting of the British Pharmaceutical Conference were contained in the report of the Organisation Committee. These were classified under fifteen headings, and it was recommended that they be circulated to the branches.

The Committee had had under consideration a suggestion made at Belfast and received from other quarters that model rules for adoption by branches should be prepared. The Committee considered that every branch ought to have rules of some kind, and that certain rules should be the same for all branches, with any additions to meet local circumstances that individual branches like to make. Draft rules were appended, and it was recommended that the draft be circulated with the motions for discussion at the Conference, with an intimation that it will be put forward for discussion at the branch secretaries' meeting and that a motion will be submitted subsequently at the representatives' meeting asking for the approval of the Conference to all branches being required to adopt the rules.

APPRENTICESHIP

The following resolutions had been referred to the Education Committee:—(a) That this meeting of delegates is not satisfied with the action taken by the Council regarding limitation of apprentices recommended by the Aberdeen Conference, and urges them to realise the seriousness of the position and take steps to find a remedy. (Oldham and District Branch.) (b) That the training of the apprentice in the chemist's shop should be considered with special reference to the chemists in agricultural and provincial areas. (Cardigan, Carmarthen and Pembroke Branch.)

The Education Committee considered these and appended a reply, recommending that a motion for the adoption of the statement be submitted by the Council to the representatives' meeting at the Bournemouth Conference.

MR. NEATHERCOAT said that the two resolutions on apprenticeship sent to the Education Committee had been the subject of reports at the last meeting.

RETIREMENT OF SEVEN MEMBERS OF COUNCIL

It was reported that the following members of Council are due to retire in May next pursuant to Statute:—Mr. Walter Deacon, Mrs. Alice Freke, Mr. Thomas Guthrie, Mr. James Jack, Mr. John Keall, Mr. Ernest Tom Neathercoat, Mr. Charles Alfred Noble.

BENEVOLENT FUND COMMITTEE

The report of the Benevolent Fund Committee showed that seventeen applications had been considered, and grants made

ranging from £5 to £30. The quarterly report of the Committee showed that fifty-two applications had been granted and that the amount dispersed totalled £1,316. The receipts during the same period amounted to £2,041 18s. 7d. Among the special contributions acknowledged by MR. ANTCLIFFE was one of £22 12s. 6d. from the Staffordshire Pharmacists' Association. Mr. Antcliffe explained that it consisted of funds belonging to the old Association.

WAR AUXILIARY BENEVOLENT FUND

The report of this Committee showed that three applications had been received, and that grants varying from £26 to £52 had been made. The quarterly report of the Committee stated that fourteen applications had been considered, grants having been made in eleven cases, and the total amount granted had amounted to £279.

EDUCATION COMMITTEE

The report of the Education Committee showed that the Committee had considered applications from fourteen institutions for approval of full-time courses of instruction in chemistry, physics and biology, to be held during the session 1936-37. Six institutions which had been visited were, with one exception, approved.

Among other matters dealt with by the Committee was the report of the Board of Examiners for Scotland for 1935.

The following are extracts from the report:—

Preliminary Scientific Examination

Chemistry.—The main cause of failures is not that the standard is too high for the ability of students but that they do not make sufficient effort, or do not obtain the necessary minimum of expert assistance, to make their knowledge effective.

Physics.—The standard of work has been well maintained, and a steady improvement in the practical work has been observed. In the written examination the answers to questions too often contain much irrelevant matter, showing that the candidate is merely reproducing his lecture notes from memory, or has failed to read the question thoroughly before attempting it. In particular it was observed that a very large proportion of the candidates are unable to give complete definitions of magnetic and electrical units, through an insufficient knowledge of elementary mechanics. Many are hampered in the solution of problems by their inability to perform accurately arithmetical calculations or solve simple equations.

Botany.—There is a general lack of scientific precision and clarity of language in the answers. Candidates seem to prefer to offer a long descriptive essay rather than concise notes supplemented by accurate labelled diagrams. There is also a somewhat free use of abstruse terms memorised from text-books and which, nowadays, are regarded as hardly necessary in a preliminary examination, and this is coupled with an inability in many cases to define accurately such fundamental terms as "fruit" and "seed." As regards work involving anatomy and morphology there is a definite improvement especially in the practical examination.

Chemist and Druggist Qualifying Examination.—Many of the written papers suffer from bad writing, faulty composition and indifferent spelling. Teachers of pharmacy might well give some instruction in the "technique" of answering questions in a written examination. Excessive and unwarranted use of undesirable contractions (in order to save time) tends to increase and should be avoided.

Pharmacognosy.—Identification of specimens is generally well done except by candidates who are weak all round. Candidates are frequently at a loss to describe the diagnostic features of the drugs they identify.

Practical Pharmacy.—There is a serious tendency to avoid, wherever possible, any calculation. This often involves the use of excessive quantities which would be most uneconomical in actual practice. Carelessness in returning the correct amount of preparation asked for is present in many cases.

Pharmaceutical Chemistry.—In the July examination the standard reached was very satisfactory. In the other examinations the average mark was considerably lower. . . . Much attention seems to be paid to details and very little to the principles involved. *Practical*.—Almost 75 per cent. of the candidates returned results which were wrong owing to mistakes in arithmetic. . . .

Forensic Pharmacy.—There is a lack of knowledge with regard to the correct labelling of poisons and poisonous substances. . . .

Pharmaceutical Chemist Qualifying Examination

Botany.—The general standard of work in this examination over the period under review has not shown the evidence of improvement seen in the Preliminary Scientific examination; too many of the passing candidates reach the pass level and no more. Questions dealing with taxonomy seem to be more acceptable than questions in physiology, or anatomy, and answers on systematics reach a somewhat higher standard than answers dealing with other parts of the science. . . .

Chemistry.—The examination showed the usual tendency for the candidates to appear more at home with the organic than the inorganic and physical paper, but the difference was less marked than usual. The reverse was noticeable in the laboratory work. . . .

Pharmacognosy.—There has been a considerable improvement which is more evident in the written work than in the practical. The identification of whole drugs was well done. The microscopic examination and identification of powdered drugs was comparatively badly done, quite important and obvious characters being frequently missed. Section cutting and mounting was not particularly well done. A comparison of the sketches submitted in the examination with the actual sections they were supposed to illustrate suggested that, having identified the drug macroscopically, the sketch was drawn from memory of the text-book illustration rather than from what was seen in the section under the microscope.

Pharmacy.—The outstanding feature is the high percentage of failures in dispensing and practical pharmacy. . . . There was not only a lack of manipulative skill, but also an inability to carry out the simplest pharmaceutical operations. The work given was similar to that given in the C. & D. examination, but the results were very much lower. . . . With regard to pharmaceutical chemistry, in answering question on, for example, assay processes, details and reactions are frequently not given and simply the B.P. method given as an answer. This indicates a want of practice in writing answers to questions and failure to observe exactly what is asked. In practical work qualitative analysis shows want of system and method, the reports giving mainly positive reactions while tests giving negative results are omitted. . . . Another fault is failure to note all the reactions taking place. . . .

Forensic Pharmacy.—The observations on forensic pharmacy under the C. & D. Qualifying examination apply also to the Ph.C. examination.

FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including an adverse balance of £154 18s. 1d., amounted to £26,128 15s. 10d.; comprising the following items:—Retention fees, £15,059 2s.; premises fees, £6,814 10s.; subscriptions, £247 16s.; College—School of Pharmacy, £39 19s. 3d.; Pharmacological Laboratories, £785 4s.; University grant, £162 10s.; registration fees, £168; restoration fees, £16 5s. 6d.; examination fees, £12 12s.; penalties and expenses, £88 14s. 10d.; rentals, £352; "Pharmaceutical Journal," £1,798 7s. 5d.; Pharmaceutical Press, £708 17s. 6d.; F.S.S.U. contributions, £20 4s. 2d.; S.S.S.S. refunds, £6 5s. 9d.; sundries, £3 5s. 6d. Payments ordered at the last meeting amounted to £9,460 15s. 6d., and £16,650 had been transferred to deposit account, leaving a balance of £18 os. 4d. The balances on the other accounts were:—Benevolent Fund (current account), £31 8s. 7d.; Benevolent Fund (donation account), £12 15s. 11d.; War Auxiliary Benevolent Fund, £38 16s. 2d.; Hills Orphan Fund, £27 3s. 3d.; Orphan Fund, £46 12s. 2d. Accounts amounting to £1,509 3s. 2d. were passed for payment, and the action of the secretary in making payments amounting to £1,509 3s. 2d.

LAW COMMITTEE

The report of the meeting on February 4, presented by Mr. Beardsley, stated that in England and Wales, since the last report, 531 shops have been visited, of which 309 were chemists' shops. In all the chemists' shops certificates were exhibited. At six of the remaining 222 shops visited certain infringements of the Pharmacy Acts were reported. In Scotland, since the last report, sixty-five chemists' shops have been visited, in all of which certificates were exhibited.

National Pharmaceutical Union

Executive Meetings

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, on January 28, Mr. S. J. Stearn in the chair.

The Executive received the report of the Marketing and Trade Prices Committee, which included the report of the Chemists' Friends Committee.

PRICE LIST

A suggestion that cross-references in the Price List be abolished was considered; it was decided that no action be taken.

The London County Pharmaceutical Association submitted a proposal for an increased dispensing fee for private prescriptions containing poisons included in the new Schedule I. It was decided that the position under the new Act was not so materially different as to justify an increase in the present dispensing fee for private prescriptions.

CHEMISTS' FRIENDS SCHEME

The Committee reported on various administrative details which had been dealt with by the C.F. Committee, including marking of packages for convenience of wholesalers, and the control of wholesalers in Scotland and Ireland so far as trade in England and Wales was concerned. Several applications for inclusion in the list were considered. The Committee had recommended that sanitary towels should not be regarded as surgical dressings for the purpose of the scheme, and that disinfectants should only be regarded as included in the scheme when recommended and advertised for the treatment of human ailments; this definition was applied also to tooth-pastes and hair washes.

The Ulster Chemists' Association had written asking the N.P.U. to extend the Chemists' Friends agreement to Northern Ireland. The Ulster Chemists' Association undertook to secure the necessary consent of the firms concerned. It was agreed that wherever the Ulster Association and the manufacturers were agreeable, the N.P.U. agreement should be extended to cover Northern Ireland.

C.D.A. Matters

The secretary reported that there were seventeen cases outstanding since the last meeting of the directors, but eight of them might be considered closed, and settlements had been made in the following two cases:—(1) Five claims for loss of sheep after dipping; all settled for the total sum of £37 9s. (2) Damage to motor van caused by cycling errand-boy; settled by payment of £3 5s. Twenty-three new cases had arisen, of which thirteen had been settled as follows:—Camera damaged while removing film; settled for 7s. 6d. Calves injured by warble paint; settled for £3 7s. Carbolic acid supplied for carbolic oil; settled for £53 11s. Death of dog after administration of draught; settled for £49 16s. Liniment and mixture labels transposed; settled for £108 8s. Battery broken during recharging; settled for 3s. Methylated spirits supplied for finish to customer who had been prosecuted for selling methylated spirits without a licence; settled for £3. Clothing damaged by electric radiators (three cases); settled for £1 10s., 5s. and 10s. respectively. Cycling errand-boy damaged jar in customer's yard; settled for 4s. 6d. Umbrella torn in shop front; settled for 7s. 6d. Claim for damages for using name in connection with a "cure"; settled for £40 15s.

FOOD AND DRUGS ACT CASES

The secretary reported that members had been defended in respect of summonses for selling mercury ointment deficient in mercury. Two of the cases had been dismissed on payment of costs in each case. In the other three cases the members had been fined. The directors gave the secretary authority to appeal in regard to these three cases.

Conference of Delegates

A Conference of Delegates of N.P.U. branches was held on January 29 at Holborn Restaurant, London, W.C.1, Mr. S. J. Stearn in the chair.

THE CHAIRMAN, after welcoming the delegates, stated that before proceeding with any business it would be necessary to consider the resolution which had been submitted by the Liverpool Branch.

MR. TRISTRAM (Liverpool) moved the following resolution, which was seconded by MR. REED (West Ham), and supported by MR. CROWE (Sheffield) and MR. STOCKS (Halifax):—"That this Conference regrets that it has not been convened in accordance with the rules of the N.P.U., and deplores the fact that the N.P.U. Executive has acted in such a manner as to adopt, approve, and attempt to enforce alterations to Rules, such alterations not having been approved either by a general meeting of the members or by a representative body of the members, but which have merely been submitted to branches for consideration." Mr. Tristram stated that the Executive had violated Rule 58 of the N.P.U. Rules in calling this Conference, which supplanted the Representative Conference. Also that it was out of order for that Conference to approve alterations to the N.P.U. Rules, as this could only be done at a general meeting of members of the Union.

MR. MALLINSON explained that there had been no irregularity in calling such a Conference, as Rule 48 gave the Executive "power to call meetings or conferences, or to take any other steps to ascertain the opinion of members, as they may from time to time deem necessary." Rule 43 also gave to the Executive, power to "make arrangements and give directions for the effectual carrying out of any or all of the objects of the Union." In calling this Conference the Executive had not done anything outside its powers or outside the rules, but in this particular case, in regard to the Chemists' Friends scheme, they wanted action through the branches, and a Conference of this kind was therefore necessary. The resolution was lost.

MR. TRISTRAM submitted that Rules 43 and 48 were too comprehensive and gave too much power to the Executive, and asked for permission to put the motion that the words "in the case of an emergency arising" should be added to these rules.

THE CHAIRMAN asked Mr. Tristram to move this resolution when the Conference was considering the suggested alterations to the rules. He moved the adoption of the standing orders for the day. These were approved.

THE CHAIRMAN referred to the death of his late Majesty, King George V, and asked the Conference to stand as a mark of respect. He informed the delegates that the Conference had not been cancelled, as the Executive was carrying out the desire of King Edward that business should be carried on as usual. This Conference had been called (1) to consider the Chemists' Friends scheme, (2) to obtain the opinion of the branches in regard to the suggested alterations to the rules, and (3) to get branches to send up resolutions upon any other subject. He felt that the time had come when pharmacy was going to be able to shake off the shackles it had carried so long. The Chemists' Friends scheme was an opportunity for pharmacists to prove that they were not men of sand; but the success or failure of the scheme rested entirely with the individual pharmacists.

CHEMISTS' FRIENDS SCHEME

MR. TRISTRAM (Liverpool) expressed appreciation of the initiation of the Executive in bringing forward the scheme, and moved the resolution which stood in the names of the Luton, North London, Walthamstow and District, Birmingham and Darlington Branches:—"That this Conference pledges itself to do everything possible to support the Chemists' Friends scheme." This was seconded by MR. STAINSBY (Darlington), and was adopted unanimously.

The Conference also adopted the resolution from the Blackpool Branch:—"That this meeting approves the C.F. scheme, and promises to do all in its power to further the scheme by personal action with the representatives of the firms with which they come in contact."

MR. REES (London, S.W.) moved that members should be urged to give the maximum support to those firms on the C.F. List, but that complete refusal of display to non-C.F. firms was not in the best interests of the ultimate success of the

scheme. This was seconded by MR. KEMP (Stoke-on-Trent), but the motion was lost.

The Conference adopted the following resolution from the Wembley Branch, moved by MR. GOODALL, and seconded by MR. ALCOCK (Ealing):—“That each branch obtain from its members a signed agreement not to accept bonus parcels or cash discount in return for window show or counter display and to remove from display all advertising matter for goods supplied by manufacturers not on the C.F. list, but to give prominence to the goods on the list.”

A resolution from the Grimsby Branch that the proposed discontinuance of purchase of display parcels should not apply to P.A.T.A. or similarly effectively price-protected articles for a period of twelve months, or for such time as shall be required to do everything possible to bring manufacturers of such goods into the scheme by negotiation and goodwill, was lost.

A resolution from the Leeds Branch suggesting that local vigilance committees be formed as required, within the N.P.U. branches, in order to keep the Executive informed of any lack of co-operation by members (who had signed the cards) and wholesalers in connection with the scheme was adopted.

The Conference adopted the resolution moved by the Swansea Branch—“That in regard to the Chemists' Friends scheme, the Conference should give chemists a lead regarding action towards those big patent medicine manufacturers who are not in the scheme.”

A resolution from the Middlesbrough and Wembley Branches suggesting that all chemists should insist upon a supply of stamped packages (where available) by manufacturers of known, admitted and approved remedies who do not join the C.F. scheme, was lost.

A resolution (as amended) of the Luton and District Branch—“That this Conference urges the formation of a list of proprietaries on which the rate of profit was grossly inadequate, with the object of chemists refusing to handle such articles” was carried.

Resolutions from the Darlington, Blackburn, Nottingham, Reading and Southampton, Liverpool, North Staffordshire, and Bournemouth Branches were referred to the N.P.U. Executive for action if circumstances rendered it desirable.

SUGGESTED ALTERATIONS TO N.P.U. AND C.D.A. RULES

The suggested alterations to the N.P.U. and C.D.A. rules, which the Executive considered it would be desirable should be made, had been circulated to the branches.

MR. GILBERT (Swansea) moved the following resolution as a vote of confidence in the Executive:—“That this Conference approves the suggested alterations to the N.P.U. and C.D.A. Rules.” This was seconded by MR. WALLIS (Chester), and the resolution was carried.

MR. TRISTRAM moved that the words “in the case of an emergency arising” should be added to these Rules. The motion was lost.

MR. TRISTRAM asked what advantages would be gained by the suggested alteration to Rule 58, which would allow one representative only to each branch.

THE SECRETARY explained that the reason for the suggested alteration to the Rule was that branches had complained that they had no direct representation at the Representative Conference, but the real difficulty in regard to the Representative Conference was that the *liaison* between the representatives of the local areas they covered was, in many cases, non-existent.

MR. TRISTRAM suggested that one delegate should be allowed for every 100 members in a branch, with a maximum of two. MR. SKINNER (North London) supported Mr. Tristram. It was moved by MR. LEAPER (Southampton) and seconded by MR. TRISTRAM:—“That the Executive consider the proposal of one delegate for every 100 members per branch with a maximum of two.” This resolution was carried.

MR. GARSIDE moved a resolution from the Oldham and District Branch that the subscription payable to the N.P.U. shall not include the P.A.T.A. subscription. This was seconded by MR. ETHERINGTON (Rochdale), but the resolution was lost, after the secretary had explained that the Executive Committee had power to make the change at any time.

The Birmingham Branch had submitted a resolution asking for each branch to be supplied with a card index of all members of the N.P.U. in the area. The secretary explained the difficulties of carrying out such a suggestion satisfactorily owing to the frequent changes in membership and overlapping

in many areas. The Conference referred the suggestion back for the Executive to consider the advisability of allocating all members to branches.

POISONS LIST

Several resolutions had been submitted dealing with the new Poisons List, and the Conference adopted the resolution moved by the Plymouth and District Branch:—“That this Conference regrets that the Home Secretary appears to have disregarded the advice of his experts by relaxing the restrictions they recommended upon the sale of dangerous and poisonous articles which have caused many deaths in the past, and to which coroners have repeatedly drawn attention.” The Conference also agreed to another resolution from this Branch protesting against the ease with which dangerous poisons can be introduced into the homes of the people as animal remedies.

A resolution from the Reading and North London Branches requesting the N.P.U. to support the Pharmaceutical Society in its protest against the changes made in the Poisons List by the Home Secretary was also agreed to.

The resolution from the Liverpool Branch, expressing regret that no action had been taken by the pharmaceutical members of the Poisons Board to compel the Home Secretary to defend his modifications in the House of Commons was withdrawn, after the secretary had explained the action taken by the pharmaceutical members of the Board.

MR. BRACKENBURY (Middlesbrough) moved a resolution asking the N.P.U. to advise members to charge a definite fee for making a sale of a registered poison under the new Act; this was seconded by MR. OWEN (Anglesey), but the resolution was lost.

OTHER RESOLUTIONS ADOPTED

The following resolutions were adopted:—

“That the N.P.U. Executive be asked to encourage branches to report to their local Excise officers cases of destamped medicines being sold by persons not entitled by qualification or apprenticeship to sell them, and also those cases where patent medicines are known to be sold by shopkeepers who have no patent-medicine licence.” (Leeds.)

“That the Executive should do its utmost to limit the prescribing of expensive proprietaries for insurance patients and also to limit the introduction of new items to the Tariff.” (Southampton.)

“That this N.P.U. Conference strongly urges the Council of the P.A.T.A. to include in the agreement permitting co-operative societies and similar bodies to sell P.A.T.A. goods a clause making it necessary that a label shall be put on all P.A.T.A. articles, indicating that no dividend is available on that article.” (Walsall.)

“That in view of the service which the D.D.A. and Poisons Cards were found to be, it is recommended that as soon as circumstances permit, similar cards be issued for the new Poisons List.” (Plymouth.)

“That the N.P.U. approach the makers of all proprietary medicines containing poison which can be sold only by authorised sellers, requesting them to fix the price of such articles to show a minimum profit of 33½ on selling price.” (London, N.E.)

Bradford Branch suggested that Messrs. Woodwards be approached with a view to an increased profit on unstamped gripe water.

RESOLUTIONS WITHDRAWN

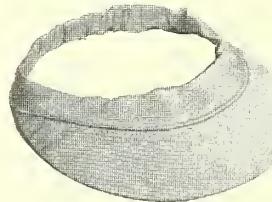
The following resolutions were withdrawn, after explanations had been given by the secretary:—“That items in the National Retail Price List should be given under the B.P. title without any cross reference to other synonyms.” (Bradford.) “That in the opinion of the Conference the Executive of the N.P.U. should make an endeavour to obtain an appreciable increase in the cost of the patent-medicine licence.” (North Staffs.)

MR. SAWYER (Hull) proposed a hearty vote of thanks to the chairman for the manner in which he had conducted the meeting. This was endorsed by MR. TRISTRAM. MR. STEARN briefly replied and paid a tribute to the work of Mr. Mallinson and his staff.

Trade Notes

GLAXO LABORATORIES, LTD., Greenford, Middlesex, inform us that they have been accepted as members of the Chemists' Friends scheme.

PORTIA SPORTS SHADES.—Solport Brothers, Ltd., 184-192 Goswell Road, London, E.C.1, have recently reduced the prices of the most popular styles of Portia Sports and Reading Shades. In addition a new article described as the Centre Court fabric tennis eyeshade has been introduced. This eyeshade is available in four pastel colours and white. Further details may be obtained on application.



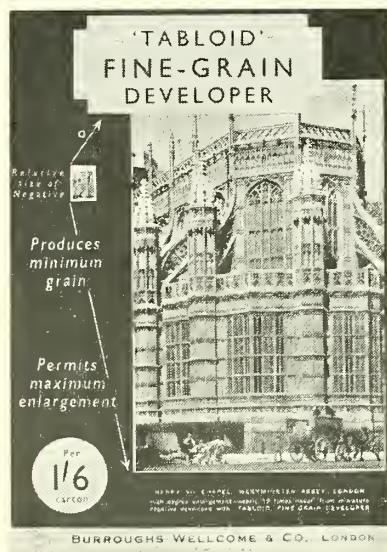
HERBAL LIQUORICE TABLETS prepared by Zems, Ltd., Gladstone Laboratories, 113 Park Avenue, Willesden Green, N.W.10, which are being issued for use against colds, coughs and influenza, are advertised in this issue.

ENDRINE is the product of Petrolagar Laboratories, Ltd., Braydon Road, London, N.16, to which reference was made in this column last week in connection with a bonus offer of thirteen to the dozen bottles during February.

TEASDALE BRAND CHLORODYNE.—Prices of this well-known brand of chlorodyne have been reduced and the product is being advertised to the public. Further details are given in our advertisement pages. The telephone number of The Teasdale Chlorodyne Co., 75 Fitzwilliam Street, Huddersfield, is Huddersfield 28.46 and not as given in *The Chemist and Druggist Diary and Year Book*, 1936, p. 135.

BRITISH MEDICINAL COD-LIVER OIL.—British Cod-Liver Oil Producers (Hull), Ltd., St. Andrews Dock, Hull, draw attention to the high vitamin content of their British-made cod-liver oil. It is claimed that their standard production exceeds the average vitamin A content by 49 per cent. and vitamin D content by 23 per cent. Intensive propaganda will support the sale of this product and distribution is effected through the usual wholesale channels. Further particulars are obtainable direct from the producers.

TABLOID FINE-GRAIN DEVELOPER.—A showcard recently issued by Burroughs Wellcome & Co., Snow Hill Buildings, E.C.1, for Tabloid Fine-Grain Developer, shows an enlargement of a photograph of Henry VII Chapel, Westminster Abbey, the original negative of which was developed with Tabloid Fine-Grain Developer. The relative sizes of original and enlargement are convincing evidence of the efficiency of this developer.



the film factory. An interesting pamphlet giving a series of views of the Nuro works has been published and copies may be obtained on application.

ECLIPSE SPECIALITIES.—James Neill & Co. (Sheffield), Ltd., Sheffield, 11, make an interesting announcement in regard to Eclipse specialities for the modern chemist. These include razor and blades, scissors, manicure files and shaving brushes.

FOR EASTER TRADE.—Bourjois, Ltd., Queen's Way, Croydon, have issued an attractive packing of Evening in Paris eau de Cologne. This takes the form of an Easter egg in which is contained a bottle of cologne. This casket should find a ready sale in view of its topical interest and also because this eau de Cologne has already established itself as a product of quality.



EDWARD HACK, LTD., Hanover House, 73-78 High Holborn, London, W.C.1, inform us that an addition of adhesive plaster has been made to their iodine and styptic pencil. Elsewhere in this issue a bonus offer is made for a limited period.

WARNING NOTICE.—Pearson's Antiseptic Co., Ltd., (William Pearson, Ltd.), 172 Buckingham Palace Road, London, S.W.1, publish a warning notice in regard to the sale of substitute products for Creolin Liquor Antiseptics which is sold in original packages through the usual wholesale houses.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Year-Book," 1936, p. 323.

(From "The Trade Marks Journal," January 15, 1936.)

- "DANGO"; for medicines (3) excluding soap. By J. W. Ross, 9 Old Hall Lane, Rhodes, Manchester. 563,233.
- "KEETAH" in oblong frame; for medicated preparations (3) excluding soap. By M. Draper, 4 The Triangle, Barry Island, Glam. 564,285.
- "PYLON BRAND" under design of pylon on circle; for medicated wine (3). By Gross Hermanos, Canales No. 11, Malaga, Spain. 564,103.
- "ASPIRUB"; for preparations for coughs, colds, neuralgia, etc. (3). By Justin Haynes & Co., Inc., 347 Fifth Avenue, New York, U.S.A. 564,463.
- "NURITABS"; for medicinal chemicals (3). By H. Beck, 17 Exeter Road, London, N.W.2. 565,035.
- "TUSSAMAG THE CLINICALLY APPROVED EXPECTORANT" with floral design; for medicated preparations for affections of the throat, etc. (3). By Chemische Fabrik Tempelhof A.G., Oberlandstrasse 65, Berlin-Tempelhof, Germany. B564,367.
- "MARVO"; for medicated toilet paper (3). By St. Andrew Mills, Ltd., 34 St. Andrew Road, Walthamstow, E.17. 564,770. (Associated.)
- Mythological design on circle; for perfumery, etc. (48). By Coty Manufacturing Co., Ltd., Great West Road, Brentford, Middlesex. 565,053.
- "SERADI"; for perfumery, etc. (48). By Seradi, Ltd., 72 Basinghall Street, London, E.C.2. 562,819. (Associated.)
- "HOSEX"; for shampoos containing oil (48). By The H.O. Manufacturing Co., Tower Electrical Works, Old Town, Clapham, S.W.4. 562,187.
- "DELLWOOD"; for perfumery, etc. (48). By Mary A. Smith (The Corona Toilet Co.), 1 Grove Crescent Road, Stratford, London, E.15. 564,920.

APPLICATION AMENDMENTS

The specification for "STEROFIL" in Class II, No. 560,241, by Chemische Forschungs G.m.b.H., has been amended by deleting medical and surgical bandages.

The specification for "VASODORM" in Class 3, No. 562,166, by Société Anonyme les Laboratoires Dausse, has been amended to "a vascular cardiac and sedative medicine for human use."

Marriages

BEGG—BEVIS.—At St. Pancras Church, Chichester, on January 30, George Warnock Begg to Mary Grace Bevis, chemist and druggist, only daughter of Mr. George F. Bevis, chemist and druggist, Eastgate.

Deaths

BOWEN.—On January 26, Mr. John Bowen, chemist and druggist, South Wimbledon, London, S.W.19. Mr. Bowen qualified in 1922.

GULLIVER.—At a Bournemouth nursing home, on January 27, Mr. Walter Frederick Gulliver, Ph.C. Mr. Gulliver passed the Major examination in 1883, and for a long period carried on business at 6 Lower Belgrave Street, London, S.W.1. He was president of the Western Pharmacists' Association in 1901-02; and at London meetings of the British Pharmaceutical Conference in 1900, 1913 and 1923 he served on the Local Executive Committee. Mr. Gulliver was formerly a member of the Pharmaceutical Society's Board of Examiners for England and Wales; on his retirement from business he entered the teaching profession and for a time was principal of the London College of Pharmacy.

HOPE.—On February 3, Mr. Alexander Thomas Hope, chemist and druggist, 52 Dempster Street, Wick. Mr. Hope qualified in 1909.

HOWELL.—On January 21, Mr. George Barker Howell, chemist and druggist, Stockwell, London, S.W.9, aged thirty-four.

JEPSON.—On January 13, Miss Evelyn Mary Jepson, chemist and druggist, West Tarring, Worthing. Miss Jepson qualified in 1905.

RUXTON.—At Umtali, S. Rhodesia, recently, Mr. David Ruxton, chemist and druggist, aged forty-nine. Mr. Ruxton was born at Montrose, and passed the Minor examination in 1909. He was for some time with Allen & Hanburys, Ltd., at Vere Street, London, W.1, before going to Rhodesia to join Strachan & Co. at Salisbury. In 1919 he started business on his own account, and had at the time of his death built up a large connexion. Mr. Ruxton was a member of the Pharmaceutical Society of Rhodesia for many years. He is survived by a widow and family.

SPENCE.—In a nursing home in Edinburgh, recently, Miss Elizabeth Spence, Lowvalley House, Blackness, West Lothian, aged sixty-nine. Miss Spence was a member of a well-known Linlithgow family which for several generations has figured in the medical, pharmaceutical and public life of the town.

THOMPSON.—At his residence, "The Dene," Four Oaks, Warwickshire, on January 25, Mr. Edgar Joseph Thompson, chemist and druggist, a director of H. Thompson & Co.'s Idolice Specialities, Ltd., manufacturing chemists, 10 Prospect Row, Birmingham. As secretary, Mr. Thompson rendered valuable service to the company for nearly thirty years, during which time his constant labour and wise counsel did much for its prosperity. He had expert knowledge which covered a wide field, in addition to his scientific learning. He had travelled abroad, and spent four years in Australia. Mr. Thompson's loss will be deeply felt by all who knew him and appreciated his sterling qualities.

Wills

MR. WILLIAM ELLIOTT, 25 Brougham Road, Acton, W., chemist and druggist, who died on October 19 last, aged eighty-eight, left estate gross value £32,385 with net personalty £18,659 (estate duty £3,562 12s.).

MR. GEORGE SUTHERLAND HAMILTON, 37 Clepington Road, Dundee, head of the firm of James Hamilton & Son, manufacturing chemists, who died on November 5 last, aged seventy-five, left personal estate in Great Britain valued at £11,177.

Personalities

BRO. J. S. SNELL, J.P., chemist and druggist, Accrington, has been installed Worshipful Master of Equality Lodge of Freemasons.

MR. W. A. WILSON, chemist and druggist, Selsey, Sussex, has been elected a member of the Committee of the local chamber of commerce.

MR. E. W. BOVILL (R. C. Treatt & Co., Ltd., 11 Hart Street, London, E.C.3) has been appointed a director of Matheson & Co., Ltd., 3 Lombard Street, London, E.C.3, China and Eastern merchants.

THE title of Reader in Pharmacological Chemistry in the University of London has been conferred on Mr. H. R. Ing, D.Phil., M.A.(Oxford), in respect of the post held by him at University College.

MR. A. H. JONES (Ayrton, Saunders & Co., Ltd.) has been presented by the Leeds Branch of the Commercial Travellers' Benefit Society with a chiming mahogany clock as an appreciation of his work as secretary during the last twenty years.

Business Changes

MR. W. MARTIN, Ph.C., is opening a branch at Church Square, Banbridge, co. Down.

ROBERT McBIRNEY & CO., LTD., 63 Cregagh Road, Belfast, have opened a new pharmacy at 209 Woodstock Road.

MR. C. DEMPSTER, chemist and druggist, Dumfries, has acquired the business of Mr. Charles Wilkie, chemist and druggist, 20 Argyle Street, Rothesay.

COATE & CO. (AXMINSTER), LTD. (nail brush manufacturers), transferred their business activities on January 31 to their factory at Nimmer Mills, Chard, Somerset, to which address all communications should be sent.

Coming Events

This section is reserved for advanced notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, February 11

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 8.30 p.m. Evening meeting. Professor E. C. Dodds (director of the Courtauld Institute of Biochemistry) on "Chemical and Pharmacological Aspects of the Hormones."

Pharmaceutical Society, Birmingham and District Branch, Imperial Hotel, Birmingham, at 8.30 p.m. Dr. J. F. D. Shrewsbury on "Chemical Disinfectants."

Wednesday, February 12

Birmingham Pharmaceutical Association, Botanical Gardens, Edgbaston, 8 p.m. to 1 a.m. Dance. Tickets 3s. 6d. each.

Pharmacy Department, Leicester College of Technology, at 8 p.m. Reunion supper-dance (super 10 p.m.).

South-West London Chemists' Association and Branch. Visit to works of Bovril, Ltd. Party limited to fifty. Meet 2.30 p.m. at the main entrance, Bovril, Ltd. (near Old Street Station).

Thursday, February 13

West Ham and Eastern District Association of Pharmacists, Hotel Metropole, Whitehall Place, London, S.W.1. Annual dinner and dance. Reception 6 p.m.; dinner 6.30 p.m. prompt. Dancing 8.30 p.m. to 1 a.m.

Pharmaceutical Society, Leeds and District Branch. Debate, opened by Mr. E. Wood, on "Does Pharmacy Deserve Help?"

Manchester Pharmaceutical Association, Junior Branch, Agar's, Stock Exchange Restaurant, 15 Cross Street, at 8.30 p.m. Bridge drive. Tickets 2s. each.

Pharmaceutical Society, Reading and District Branch, Willison's Hotel, Blagrave Street, Reading, at 8 p.m. Mr. F. W. Adams (Asst. Secretary, Pharmaceutical Society) on "The New Poisons List and Rules."

Friday, February 14

The South-West London Chemists' Association and Branch, The Balham Club, Ltd., Ramsden Road, S.W.12, at 8.30 p.m. Mr. A. J. Fairlie on "R. Decot. Pharm. Co."

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THE CHEMIST AND DRUGGIST

VOL. CXXIV.

February 8, 1936

NO. 2922

The C. & D. "Poisons Guide"

AN announcement is made in this issue regarding THE CHEMIST AND DRUGGIST "Poisons Guide." As an authoritative and practical publication, we venture to suggest that it will stand as a model handbook for pharmacy in the handling of poisonous substances by all branches of the trade. It is now well known that the Pharmacy and Poisons Act, 1933, will be responsible for a revolution so far as the handling of poisons is concerned. In addition, there has been made a distinct cleavage between the sale of poisons and the practice of pharmacy, with which poisons sale has for so long been associated. It is a commonplace to say that the 1933 Act places the convenience of the public first in regard to the handling of poisons so far as substances described as poisons and which are in common use are concerned. As has been already pointed out in these columns, the time is now opportune for an official pointer to be given to the trade as to whether or not pharmacy should, in fact, look upon the sale of poisons from a new view-point. It is to be regretted that the trade in general, if one can judge by previous experience, is unlikely to receive any clear-cut indication as to the feelings of pharmaceutical rulers in this connexion. On the assumption, therefore, that it is for the individual pharmacist to decide for himself whether he is to benefit so far as he can from any recognition he has received as a result of the passing of the Act, he will consider whether the sale of poisons is to constitute a part of his business or whether he is to acquiesce in the passing of trade to other branches of commerce.

The object of THE CHEMIST AND DRUGGIST "Poisons Guide" is to provide a complete manual in regard to poison classification, as well as labelling and supply. Not only is the registered pharmacist bound to find this handbook of service, but those engaged in the wholesale distribution of poisons, as well as manufacturers and importers, will recognise that the publication is unique. The Extended List of Poisons which appeared in *The Chemist and Druggist Diary and Year-Book*, 1936, is the basis on which the present Guide is established. We have endeavoured to simplify the instructions, additional poisonous substances have been added, and a new feature is included, namely, a Glossary, which will be of conspicuous service in interpreting difficulties which are bound to arise after May 1. The book is now in the press, and copies will be available in a few days. Since the publication of the preliminary guide in *The Chemist and Druggist Diary and Year-Book*, 1936, we have had many expressions of appreciation in regard to the usefulness of the list. In the light of our further experience, important additions have been made, including the alterations made by the Home Secretary. We are confident that this "Poisons Guide" will be worthy of its place among THE CHEMIST AND DRUGGIST publications which for many years have served all branches of the trade.

The Future of K.I.D.

PART I of the Safeguarding of Industries Act, 1921, under which is operated what is known in the trade as the Key industries duties, is due to expire in August of this year. The Committee set up by the Board of Trade to inquire into and report on the operation of these duties over the past fifteen years completed their investigations last year and have, no doubt, by this time submitted their findings and recommendations to the authorities. It is known that the manufacturers who have been assisted by the imposition of these duties, and the importing merchant interests, both made submissions to the committee to the effect that, in their opinion, it was very desirable the identity of this national safety legislation should be preserved by being renewed in its present form and not merged into the Import Duties Act, 1932. It was urged that the protection of industries essential to the welfare of the nation in time of peril should remain outside the field of politics. There appears to have been no suggestion from any organised and representative commercial interests that the duties should not, in some form or other, be continued. The official view seemed to favour discontinuing the duties under a separate piece of legislation and bringing them under the scope of the Import Duties Act. This would certainly simplify matters for Customs, who, in the past, have had to provide a special department for the collection of Key industry duties.

The Government will first make known their decision on the matter in this year's Finance Bill when they provide for the continuance of protection of the Key industry products, and it will not be very surprising if their decision, based on the recommendations of the Board of Trade Committee, is in the nature of a compromise. It is difficult to imagine that the distinct character of the Key industry duties will be dropped or in any way weakened, yet, no doubt, an effort will be made to satisfy the wishes of the operating department that the duties should be collected under the same regulations as those governing the general *ad valorem* duties. This may be effected by creating a special section of the Import Duties Act, 1932, and such an addition to the 1932 Act may possibly be given a distinctive designation reflecting the nature of the duties. The rate of duty on "Key" chemicals in the past has been 33½ per cent. *ad valorem* and there seems to have been no suggestion that this rate is not adequate. But the *ad valorem* method has not been entirely satisfactory and it would not be surprising to find that, in at least some instances, the duties to be imposed after August next will be specific.

United States Pharmacopœia Revision

The chairman of the Committee of Revision which has just completed the United States Pharmacopœia XI gave an informative address on the book last month at the New York Branch of the American Pharmaceutical Association. In one respect the U.S.P. has an advantage not shared by the British Pharmacopœia: Mr. E. Fullerton Cook remarked in the course of his address that its position "has always enabled it to command the co-operation of scientific workers throughout the country." As we pointed out, however, in our issue of December 16, 1933, this disability of the British Pharmacopœia has been largely remedied by the establishment of a research laboratory under the control of Dr. C. H. Hampshire. To us the chief interest of Mr. Fullerton Cook's address lies in his account of the comprehensive measures that have been taken

to facilitate the admission to the U.S.P. of new substances of sufficient merit to warrant their inclusion. Already, in the period 1933-35, four "Interim Revisions" were sanctioned, providing new standards for cod-liver oil and six other drugs or preparations. This policy has fully justified itself:—

"It is hoped that official announcements may be made from time to time as revisions or additions are decided by the Committee, but that the printed text may take the form of an 'Annual Supplement to the Pharmacopœia,' appearing on January 1 of each year."

After indicating that future committees of revision will have to find a way out of the difficulty caused by "the increasing tendency for universities and manufacturing firms to patent or trade-mark new medicinal products," Mr. Fullerton Cook outlined the programme arranged for circulating information concerning the use of official medicines. A series of twenty-four fortnightly articles on this subject will appear in "The Journal of the American Medical Association," and there will be special articles on prescription-writing. Further,

"a corresponding series of twenty-four articles will appear in pharmaceutical journals some weeks prior to the medical articles, so that pharmacists and pharmaceutical

manufacturers may emphasise to physicians the official products to be discussed and recommended in the forthcoming A.M.A. Journal articles. Pharmacists could even fill some of the typical prescriptions and show them to physician friends as an aid to them in prescription-writing. This will be appreciated especially by some of the younger physicians, who often lack confidence in the writing of prescriptions for official medicines where dosage, solubility, incompatibilities and vehicles are involved."

It has also been arranged to have an exhibit in Philadelphia, "presenting the preparations and prescriptions recommended in each of the A.M.A. Journal articles"; these specimens will be photographed and described for the information of pharmacists and hospitals. There is, perhaps, a faint suggestion of standardised prescribing in this scheme; but if it weans medical men from the thoughtless ordering of proprietary preparations it will be an excellent influence. Towards the close of his address Mr. Fullerton Cook adumbrated the possibility of establishing at Geneva, under the auspices of the League of Nations, a "secretaryship on pharmacopœias." If this project involves the resumption of work on the International Pharmacopœia first discussed at the Paris Congress of 1867, it is obvious that a good deal of preliminary documentation will have to be undertaken.

Mediæval Arabic Pharmacology

IN a recent issue of the "Proceedings of the Royal Society of Medicine" (29, 99) appears an informative survey of the evolution of medical practice in Arabia, from the times of Mahomed to the twelfth century, by Dr. E. J. Holmyard, M.Sc. An impetus to learning was given by certain caliphs during the second half of the eighth century and the first half of the ninth. Thousands of manuscripts, chiefly Greek, were acquired and were translated; and the process was furthered by the setting up of a paper-making factory. We select for quotation a few of the author's references to the principal translators and their medicines.

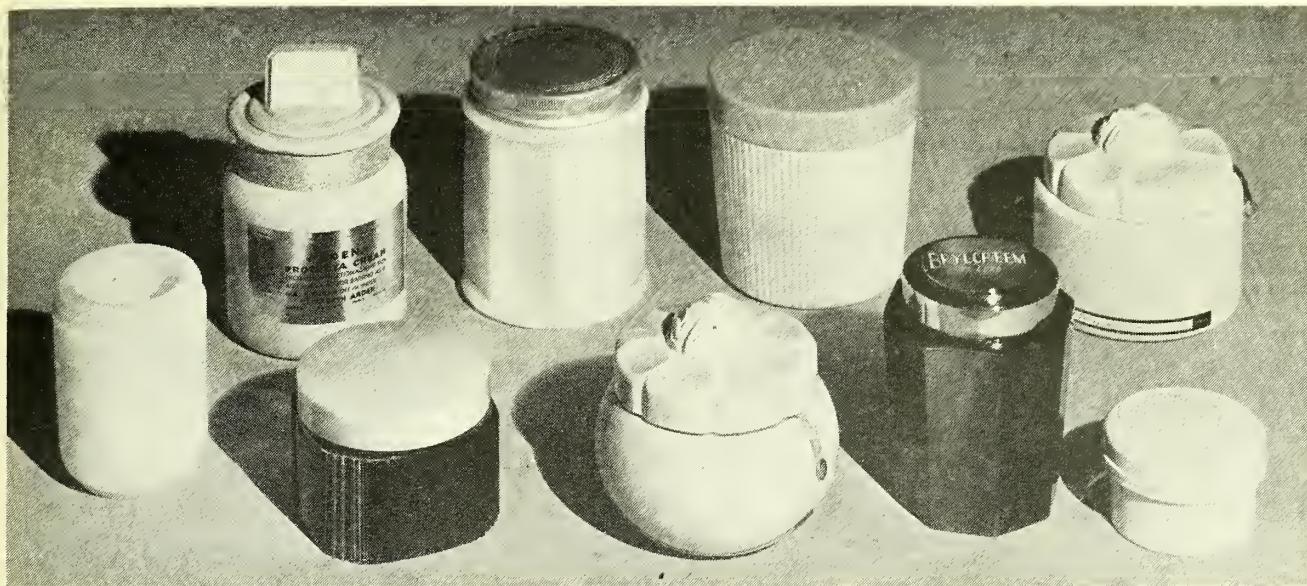
A Nestorian Physician

Hunain ibn Ishaq was a Nestorian physician of Jundi-Shapur. He later moved to Baghdad. Altogether, he was responsible for more than 150 translations and composed at least 100 original books. He created many of the Arabic scientific terms, and identified the Greek drug names with the Arabic, Persian and Syriac ones of his time. One of Hunain's principal services to medicine was his original treatise on ophthalmology, in which he laid the foundation on which all subsequent Arabic work in this subject was based. This book has recently been excellently edited and translated by Dr. Max Meyerhof of Cairo; from the pharmacological point of view its chief interest lies in the large number of drugs recommended by Hunain for various purposes. Altogether they amount to more than 200. There are also many inorganic substances on the list, a fact which is perhaps a reflection of the great activity in chemistry then proceeding. Some of the substances mentioned by Hunain demand a good deal of skill in their preparation and imply a wide acquaintance with the chief elementary chemical processes. Thus it is clear that the oxidation of metals, the weathering of pyrites and subsequent extraction of vitriol, inspissation, recrystallisation, sublimation, distillation (including perhaps a crude form of steam distillation), and lixiviation, were all competently practised. How accurate the dispensing was, is difficult to ascertain; we know, however, that great advance has been made by the Muslims in weighing and in the construction of balances, for three half-dinar glass weights of the year 780 A.D. were found by Sir Flinders Petrie to agree to within $\frac{1}{200}$ gr. "To reach such accuracy it was needful to use the finest chemical balance, with closed case, double weigh the glass weights against each other, and read a long series of swings of the balance. How such accuracy was reached in the manufacture is incomprehensible. Nothing known of any other age at all approaches the fine weighing of the eighth century."

Razi, one of the best-known and most fully appreciated of Arabian physicians, lived in the ninth and tenth centuries. He wrote no fewer than 100 medical books, thirty-three treatises on natural science, fourteen on alchemy, eleven on mathematics and astronomy, and more than forty-five on philosophy, logic and theology. An accomplished chemist, Razi has claims to be considered as one of the greatest benefactors of the science of pharmacology. In his books we find, for the first time in history, a systematic classification of carefully observed and verified facts regarding chemical substances, manipulations and apparatus, described in plain and unambiguous terms very different from those commonly affected by the alchemists. He immeasurably improved both the methods of preparing drugs and their standard of purity, and adopted an experimental method in testing their therapeutic effects.

A Persian Pharmacologist

The scope of Arabian medicine was widened towards the end of the tenth century through the efforts of a Persian pharmacologist, Abu Mansur Muwaffak. His pharmacopœia contains as many as 584 items, and is enriched with discussions upon their nature and mode of action. Noteworthy is his distinction between sodium carbonate and potassium carbonate, which he seems to have been the first to make; he mentions that the potassium salt is obtained from the ashes of certain plants, and is a white deliquescent salt of a caustic taste. Quicklime he recommends as a depilatory; for a less vigorous action milk of lime may be used. He notes that copper compounds are poisonous, especially blue vitriol; the black substance obtained by strongly heating copper in air may, however, be used to darken the hair. Sulphur, since it so readily combines with other substances, can be used as an antidote in cases of poisoning by metallic compounds. Abu Mansur discusses water very fully. It is possible that one passage (probably derived from Alexander of Aphrodisias) refers to osmosis; if so, it must be among the earliest recorded observations on this subject. This physician was the first to describe the use of plaster of Paris in the treatment of broken bones. Through some mischance of history, this discovery never became widely known, and it was not until 1852 that the treatment was reintroduced into medical practice. After mentioning several less-known Arabian authors, Dr. Holmyard concludes by instancing several names of drugs and chemicals derived from either Arabic or Persian. The origin of the word "drug" he believes to be the Arabic *dawa*, a remedy. Many of these Arabic words, as Dr. Campbell Thompson has shown, can be traced to Assyrian medical and scientific usage.



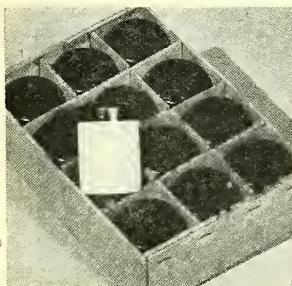
"PACKAGING" FOR CHEMISTS

The packaging of powders, dry goods and liquid preparations has been dealt with in earlier articles. Containers for creams, ointments and pastes are discussed below

(Continued from THE CHEMIST AND DRUGGIST, January 18, p. 75)

IV Creams and Pastes

IN the marketing of creams, pastes and ointments the choice of container usually lies between bottles, jars, tins and tubes. In practice, some property of the cream usually imposes its own restrictions. The product may be too thick for one type or too quick to dry for another. That many varieties may often be selected is evidenced by Brylcreem, which is marketed in narrow-necked and wide-necked bottles; squat jar and collapsible tube. For the narrow-necked bottle, which was for long the orthodox container of hair creams, the provision of a special pump is noteworthy. Many toilet creams are packed in more than one type of container. Velouty de Dixor, for example, is met with in three shapes of jar and in a collapsible tube. The reason is clear. Though each container is equally suited to the cream, it is not equally suited to the needs of every user. A pot that graces a dressing-table is out of place in a handbag. As with hair and face creams, so with shaving creams, crystallised brilliantines and even medicinal ointments; toothpastes are an exception. Jars, especially of opal glass, are justifiably popular. They are smooth to the fingers, do not pick up dirt and are agreeable in texture and appearance. Delicate tints and black can be adopted if desired. The examples illustrated include several by the United



The adaptability of creams to different types of container is shown on this page by tube, flat jar and tall pot of Velouty de Dixor and by wide and narrow-necked bottles and jar of Brylcreem. Glass and plastic pots in a variety of shapes exhibit varying degrees of designing skill. Four rigid containers and a "double-shell" cap demonstrate the main applications of metal in packing creamy preparations.

Glass Bottle Manufacturers, Ltd., which suggest the unlimited variations in shape, tint and cap possible in this material. Caps of light-coloured jars are often tinted to correspond with the bases. With black pots brilliance is secured by extreme contrast. An example from the International Bottle Co., Ltd., is shown with a white plastic cap. The Brylcreem container, also illustrated, is given an embossed cap of bright metal, its circular shape contrasting with the tapering facets of the jar. The jar is issued in a carton which itself has been the subject of a designer's skill: it opens to act as display outer, thus encouraging dealers who do not carry large stocks to show the product on the counter. In the same illustration are to be seen two cream jars



A collapsible tube for liquids is an unusual type of container. Above is a tube of Eau de Cologne

waxed disc over the contents of the jar. The jar of Ardena Protecta Cream, with silver label and neck bound with silver cord, is of transparent glass but is cellulose-painted pink on its outer surface. What is probably a standard powder jar, with ground glass stopper, has thus been converted into a most serviceable and at the same time artistic container for the dressing table. The group is completed by a small, white container of beetlenware, the cap of which screws tightly against a flange in the base. At the foot of the same page is shown one of two handsome packs recently issued by S. Maw, Son & Sons, Ltd. Meritor day and night creams are marketed in similar white opal jars, with "chased" caps of green plastic material and labels of silver and green. A circular label in the same colours, added after the jar has been cellophane-wrapped, gives an impression of quality and careful workmanship throughout. Purchasers of certain standard cream jars of opal glass have nowadays the advantage of being able to obtain the jars in sealed non-returnable containers of one dozen, clean and ready-capped for use. An illustration of such a container, as issued by the United Glass Bottle Manufacturers, Ltd., appears at the lower left-hand corner of p. 161. Instead of the plastic caps usually found nowadays on this type of jar, "double-shell" metal caps offer certain advantages. Besides costing less, they can be printed with brand or trade mark. With plastics, wording can certainly be incorporated in the mould, but only at considerable expense. "Double-shell" caps, which consist of an inner threaded and an outer smooth cap inseparably joined together, can be printed as easily as any other metal container. They are issued under patents held jointly by the Metal Box Co., Ltd., and the United Glass Bottle Manufacturers, Ltd.

Metal Containers

While the larger sizes of packed ointments are presented in jars, tins are likely to retain their popularity with customers for small quantities. The great improvement in recent years over earlier tins has been the doubling-over of the sharp edge of the base and lid, coinciding with smoother fitting and consequently easier opening. For that reason, turnkeys and other opening devices are not common in pharmaceutical manu-

facture. For packings intended for ladies' handbags aluminium has the advantages of lightness and cleanliness. The aluminium containers shown are by H. G. Sanders & Son, Ltd., Hayes, Middlesex. A handle upon a tin used for kaolin poultice permits easy removal from hot water during use.

Some outstanding examples of collapsible tubes are shown on this page. Gibbs' Shaving Cream presents its name "upside-down," and is thus in correct reading position during use, and when stood upon its "cart-wheel" cap for display purposes. Meritor shaving and dental creams are given distinguishing colours in addition to distinctive caps. A brush provided with one Arden product gives a tight fitting which in the other is provided by a separate shoulder of cardboard.

Amongst special nozzles illustrated is a "capless" tube, the patent of Capless Closures, Ltd., 72 Oxford Street, London, W.I. A headpiece is swung round to provide both aperture and permanent closure in a cap the patent of Belsey & Cassin, 19 Eastcheap, London, E.C.3. Two variants of a "nasaal" nozzle, enabling creams to be applied high in the nostril, compete the illustrations.



A review of pharmaceutical and toilet creams in tubes proves that plastics are ousting metal as capping medium. Most tubes are of orthodox shape, but on this page are shown some noteworthy exceptions, ranging from the one-time innovation of slot aperture in Colgate's dental cream to the wide, flat, double-flanged cap of Yardley's crystallised brilliantine. A capless closure reminiscent of burette-taps, turned to reveal or cover a pipe-bore, is the most outstanding of several special nozzles depicted. Transferable winding keys, calculated to obviate incorrect squeezing of tubes, are also illustrated.

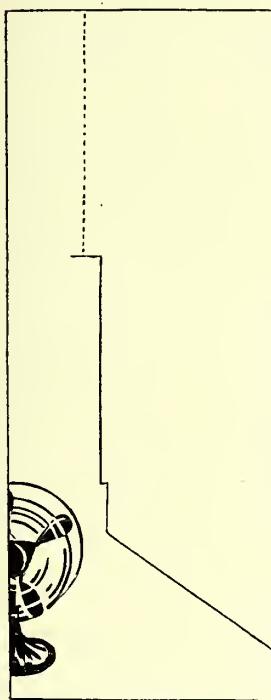


For the Cold Spell

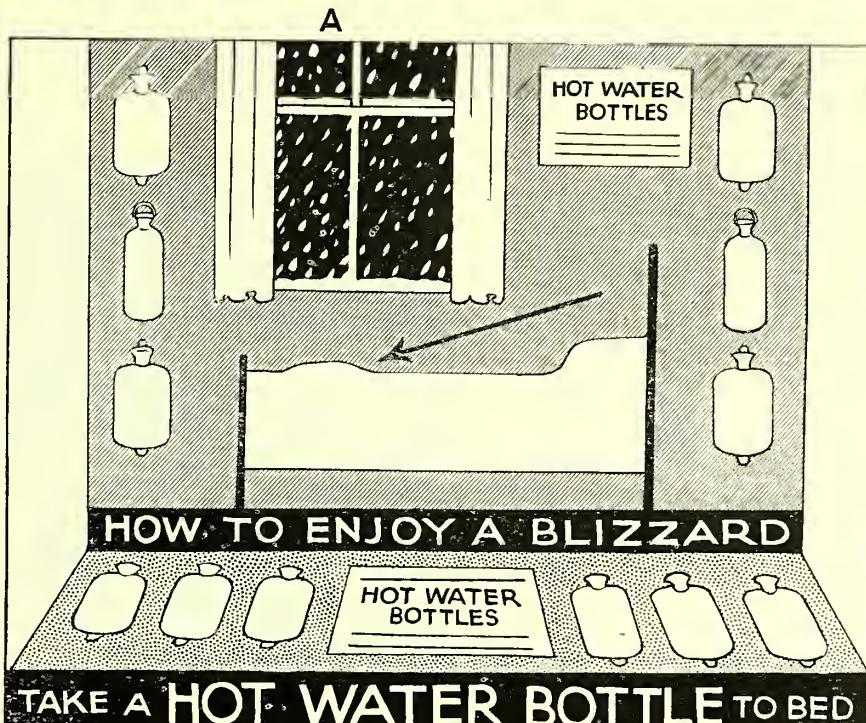
A Hot Water Bottle window display that can be prepared beforehand and quickly set up when occasion arises

In early autumn, a straightforward display of hot water bottles may meet the situation, but upon the return of zero temperatures a similar show must justify itself with immediate results. The first relies on making an impression that is recalled when the severe weather arrives—an effect which cannot be expected to outlast the turn of the year. A similar display at the present time may be an expensive speculation, should the very cold weather turn out to have virtually ceased. Present policy would best be served by having ready a strong yet simple display which can be set up almost at a moment's notice. The window featured on this page shows how this can be done. The display consists essentially of a sloping baseboard and a background that may be either rigid or of hanging material. No stock is included except on the baseboard or background, and consequently all can be fixed in position beforehand. There is the additional advantage of movement, as will be explained. As with many apparently simple arrangements, careful planning and some carpentry are required in the preliminary "engineering." Having settled in which window the display is to appear, the window dresser should prepare his material "to measure." From the diagram shown, representing a cross-section of the window, it will be seen that the baseboard consists of a

riser, a few inches deep, at the front, hinged to a sloping "false" bottom which rises to meet another riser flush with the "false" background. Any rigid material from mill-board to wood will serve. The riser, carrying part of the painted message, will support the base along the window-edge. Wood blocks can be used at the rear edge. The rubber bottles and showcard can be fixed, with tacks and tape, drawing pins or other means, after distempering or papering the base. The background, if of rigid board, can be pierced for the window and the bed can be painted upon it. If of soft material, it must be attached to a rigid window frame on rigid supports. The bedstead can be drawn on cartridge paper, cut out and affixed finally in position in the window itself. To this end, and also to enable the bottles to be suspended, the material is more amenable in strips. Crêpe paper is suitable, though it will, of course, be obvious that hooks for the bottles must pass through the material into a rigid support behind. In all the circumstances a rigid background is probably best, since



Cross-section through window
at AB.



B

Diagrammatic front view of window.

it can, with hot water bottles attached, be erected in one operation. Movement and realism is provided by the "blizzard" behind the window. "Snowflakes" of cotton-wool are attached at irregular intervals to black threads supported at the ceiling. An electric fan keeps the "snowflakes" agitated to suggest the blizzard. For one showcard, wording such as:—

Warm Toes at Night
 Are the Sleeper's Delight!
 A HOT WATER BOTTLE
 ensures warmth, health
 and a good night's rest

and for the second,

INDIA-RUBBER
 HOT WATER BOTTLES
 are
 Easy to Fill
 Hard to Wear Out
 Cosy and Comfortable to Use

will perhaps be satisfactory. The colours adopted should, of course, be warm in suggestion for the inside of the room and as cold as possible behind the window. Biscuit or salmon-pink and orange for the warm shades and purple and pale blue-green for the cold are put forward as suitably suggestive.

Chiropody in Practice

The Chiropodist usually supplies his own instruments, and personal preferences vary considerably. The cubicle should, however, be provided with certain permanent equipment, which is the subject of the fifth of a series of articles on running a chiropody department

V. Fitting Out a Department

(Continued from THE CHEMIST AND DRUGGIST, February 1, p. 134)

LITTLE space is needed to run a chiropody department. A cubicle is absolutely necessary, but its size need be no greater than 7 ft. by 6 ft. Any other available space can be used as a reception or waiting room or set aside for additional cubicles as the department grows. The walls of the cubicle should be painted with a good washable paint or enamel, which will naturally be of an attractive and cheerful colour or assortment of colours. Light "art" shades are generally the most popular. The minimum equipment which must be regarded as essential will include: Patient's chair and leg-rest; operator's chair; operator's lamp; work table; steriliser; drill; drug cupboard; paper towel container; and receptacle for waste.

PATIENT'S AND OPERATOR'S CHAIRS

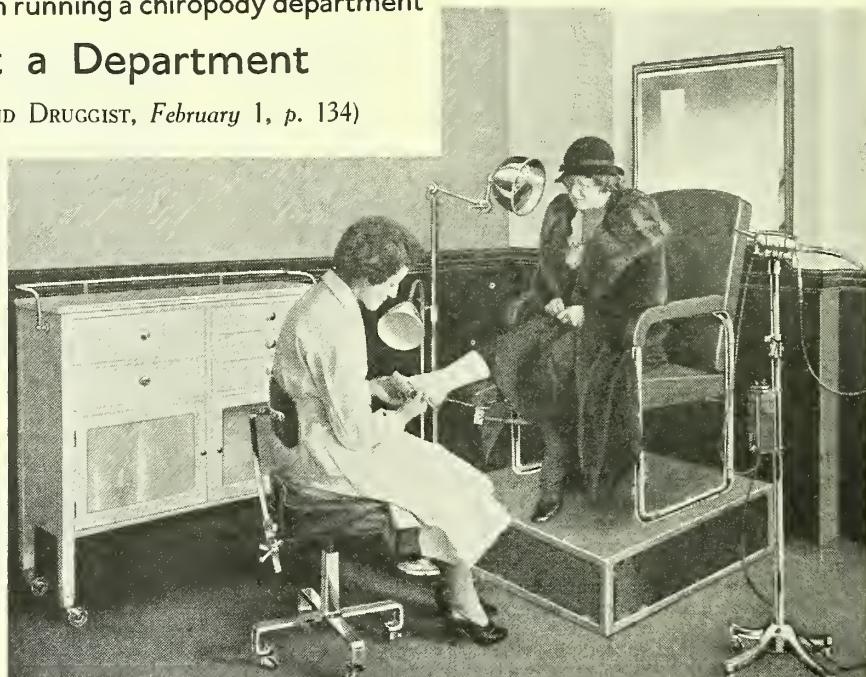
In selecting the patient's chair it is as important to consult the patient's comfort as the operator's convenience. Many types of chair are available, from a simple quadruped to an elaborate, hydraulic pillar. The leg-rest can be obtained, if desired, as an integral part of the chair. Only cost and personal preference can determine the decision. The operator's chair should certainly be of the swivel type, with adjustable back, permitting unimpeded movements and turns, for rapid treatment. For the same reason, the operator's lamp should be of the adjustable, flexible arm type, capable of being directed on a small area without difficulty. The advantage of this is apparent in the illustration; it enables the operator to sit upright at work.

WORK TABLE

The most useful work table is a wheeled trolley with two shelves and two drawers. On the top shelf, in a porcelain bottle holder, are the medicaments (iodine solution, hydrogen peroxide, friar's balsam, potassium hydroxide, etc.); a spray containing cleansing spirit; container for cotton wool; powder spray; and a glass tumbler or other receptacle for sterilising the instruments. The lower shelf holds a porcelain tray containing industrial methylated spirit for the instruments and a movable rod carrying adhesive plaster in spools of various sizes. The drawers will be utilized for conveniently presenting adhesive, zinc oxide, soap and plain paddings in thicknesses of $\frac{3}{16}$ in. and $\frac{5}{16}$ in. or according to personal preference.

The drill catalogued above as part of the essential equipment of a cubicle is of a similar type to the machines commonly seen in dental surgeries, but used by the chiropodist only with burring or smoothing attachments. The function of the chiropodist's drill is to remove hard growth upon the nails and elsewhere when hand-filing would be tedious or painful; the small rotating burr will result in smoother, more uniform reduction of the hard accumulation with less risk to the soft skin encircling it.

The addition to the equipment of the department of ultra-violet and infra-red radiation apparatus needs to be considered when the practice has grown sufficiently to warrant it. An x-ray apparatus would also be very valuable as an aid to diagnosis, but is a costly item which can only be installed in a very large department. None of these items can be regarded as standard equipment for a cubicle; they do not, therefore, come within the scope of the present article.



A chiropodist's cubicle showing patient's and operator's chairs; operator's lamp; drill; work table, etc.

A suitable steriliser is the dry steriliser cabinet, fitted with two or three perforated trays, for use with formaldehyde solution. Little need be said about the drug cupboard, since any small wall cupboard will serve; or about the waste receptacle, except that one with a pedal-operated lid is the most neat and convenient. Paper towels are used to cover the foot-rest. It is very necessary that some such disposable covering should be used, since certain foot troubles, such as verrucae, are transmissible.

The position of the cubicle should be planned with an eye to expansion. It is advisable to provide as much waiting space as possible; absence of it is, of course, very detrimental to the client's satisfaction, while overflow into the pharmacy proper is naturally to be avoided if possible. At the same time, it should be so placed that expansions do not abolish it or even encroach unduly upon it. The more distinguished-looking the chiropody department, the greater the opportunities of successful propaganda among doctors, nurses, masseurs, medical officers, and others whose good offices are, if not indispensable, much to be sought after. A sign outside the premises is a most necessary part of the equipment, and it should, wherever possible, be reinforced with a window display featuring appliances, dressings, etc., for the feet. The cubicle equipment, while it is, of course, indispensable to the running of a chiropody department, should also be regarded as part of the essential publicity and selected with this in mind. Advertising the business does not properly belong to the subject-matter of this article, but it may be mentioned to the extent that, having installed an attractive cubicle, the chiropodist should take steps that it should be brought to the notice of as many potential patients as possible. It might be made open to inspection by any interested member of the public at any time it is not occupied. Local institutions and clubs, whether social, political, religious or commercial, can be valuable "agents" for propaganda. To attract them, and also employees of any big local works or police, railway and post office officials, special terms might be offered for contract work.

(To be continued)

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2."

Report on the January Analytical Exercise

THE powder distributed to students on January 7 contained one part by weight of bismuth oxycarbonate, two parts of zinc hydroxycarbonate, and two parts of disodium hydrogen phosphate. The calculated composition of such a mixture is:

Bi	...	...	...	...	...	16.1
Zn	...	...	...	...	...	22.9
Na	...	...	...	...	...	5.2
CO ₃	...	...	...	...	...	9.3
PO ₄	...	...	...	...	...	10.6
H, O, OH, H ₂ O	...	...	...	...	...	35.9
						100.0

The powder was free from much admixed impurity, but it yielded a slight reaction for chloride and a faint reaction indicating a trace of an ammonium compound.

Samples of the powder were distributed to twenty-two students, and eleven reports were sent in for examination. Zinc was the only constituent returned in every report, bismuth being missed in three cases and sodium in one, while the carbonic and the phosphoric acid radicals were missed in one and in three cases respectively. The abundant evolution of water on heating the powder was overlooked by two students. Mercury, lead, and potassium, as well as the radicals of sulphuric, arsenic, and hydrofluoric acids, were incorrectly reported as constituents.

This exercise was specially designed to present an example of a phosphate mixture that did not require the application of any special method in order to remove the phosphoric acid radical. The separation of this radical (most commonly in the form of basic ferric phosphate) is necessary only in those cases when, in its known presence, the addition of ammonium chloride and ammonia, as group reagents for the iron group, produces a precipitate that is not dissolved by excess of ammonia. Such a precipitate might contain (or might consist entirely of) (a) iron-group, (b) barium-group, or (c) magnesium phosphates, and the presence of any of those included under (b) and (c) would interfere in the usual systematic examination of the iron-group precipitate. It seems opportune to combat a usage, now seemingly general amongst pharmacy students, which consists in first testing for the phosphoric acid radical and then, if it is found present, applying the basic ferric acetate separation method whether the precipitate produced by ammonia is soluble in excess of the reagent or not—indeed habitually without pausing to examine the matter in this respect at all. In the present analysis, the precipitate dissolved completely in excess of ammonia, and an object of the exercise was to ascertain how many of our correspondents (if any) would recognise that the carrying out of an "acetate separation" was altogether unnecessary and would merely involve loss of time. The result was that the point was recognised and suitably dealt with in a single instance only. Those students who needlessly went through the separation method on this occasion ought to make a point of mastering the not very obscure reason for carrying it out in some cases, and of thereby being able to deal appropriately with any similar case in future.

PRIZES

The First Prize for the best analysis has been awarded to:—

JOHN KNOX, 8 Rutland Street, Belfast.

The Second Prize has been awarded to:—

CLARENCE K. BOWE, 7 Blackacre Road, Dudley.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSIS

<i>1. Correspondents who have not passed in Chemistry:—</i>	
J. Knox (1st Prize)	...
C. K. Bowe (2nd Prize)	79

<i>2. Correspondents who have passed in Chemistry:—</i>	
Mitosis	...
Aganippe	...
Hippocrene	...
Emodin	...
Poppy	...
E tan e epi tan	...
Hodie non Cras	...
Nihil	...

To CORRESPONDENTS

J. KNOX.—Note particularly the points concerning phosphate mixtures that are mentioned in the general remarks.

C. K. BOWE.—You were one of the very few correspondents who observed that the precipitate produced on adding the reagents for the iron group dissolved in excess of ammonia; but the value of the observation was nullified by your failing to test for, and thereby missing, the phosphoric acid radical.

ABSENTE FEBRI.—In the known presence of bismuth, the test for lead in the copper-group precipitate should not have been omitted. The solution of ammonium molybdate that you employ seems to require attention.

MITOSIS.—Preliminary testing and systematic analysis alike excellent.

AGANIPPE.—The sulphuric acid radical was most probably introduced in impure sodium carbonate.

EMODIN.—It is not sufficient merely to report that metals of the iron group were found to be absent, or that acidic radicals were tested for by the usual reagents. In the absence of details it is impossible to judge as to whether the procedure followed was correct or exhaustive.

POPPY.—The whole of the circumstantial report of the presence of an arsenate appears to have originated from the supposed arsenic-group sulphide precipitate, which consisted of sulphur only.

E TAN E EPI TAN.—The yellow precipitate that you supposed to be lead chromate really consisted of bismuth chromate.

HODIE NON CRAS.—Dissolve some bismuth hydroxynitrate in the least possible excess of dilute nitric acid and examine the behaviour of the solution on the gradual addition of solution of potassium iodide until no further change occurs.

NIHIL.—Note that heating a substance with copper and sulphuric acid with a view to observing the evolution of brown fumes is by no means a delicate test for the presence of nitrate in small proportion. The powder did not yield any reactions characteristic of a fluoride.

Cod-Liver Oil Production

We have received from British Cod-Liver Oil Producers (Hull), Ltd., St. Andrew's Dock, Hull, copies of letters circulated by A/S Fiskeproduktor & Co., Bergen, and of a reply by Mr. Cyril C. Harris, chief chemist to the Hull company. The letters state that the Bergen company has received samples of trawler cod-liver oil from customers in England, and that the analytical result was "dreadful." The Kreiss value is stated to have been 60 for one sample and 90 for the other, whereas the corresponding value for their medicinal cod-liver oil is from 2 to 7 R.L.U.

The chief chemist to the Hull company, in the course of his reply, points out that this criticism has been made after tests on only two samples of undisclosed origin. British and Norwegian oils, six samples of each, have been compared in the British company's refinery, with the result that the R.L.U. in the British samples range from 1.3 to 4.5 (the last-named a veterinary grade), and those in the Norwegian samples from 2.7 to 9.0. Further, Mr. Harris remarks that grave criticism has often been made of the validity of the results given by the Kreiss test, and gives references in support of his contention to Allen's "Commercial Organic Analysis," "The Journal of Agricultural Research," and Lewkowitsch's "Chemical Technology and Analysis of Oils, Fats and Waxes." He adds:—"In the matter of the other important characteristics of cod-liver oil, it is definitely proved that the guaranteed minimum of 1,000 International Units vitamin A and 100 International Units vitamin D found in standard oil produced in this company's refinery at Hull is appreciably higher than that of the great majority of Norwegian oils purchased at random in this country, and examined in these laboratories."

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, February 6

THE renewal of somewhat unsettled world political and economic conditions are once more having a detrimental effect on the markets, and business generally has been rather disappointing and at most times difficult to negotiate. The development in the weakness of the American dollar is troubling many markets, but the latest news received indicates that strong efforts are to be made to avoid anything approaching a further drastic devaluation. Business in PHARMACEUTICAL CHEMICALS has been no more than average, and some quarters report a slight falling-off in orders. While prices for most of the home manufactured products continue steady—there are some exceptions—the conditions in the markets handling nearly all the imported products, such as BARBITONE, AMIDOPYRINE, PHENAZONE, etc., are unsettled, with some unusually low quotations on the market. It is, however, probable that these cheap offers relate only to isolated parcels; they certainly do not reflect the markets generally.

Crude Drugs

Except in the case of one or two speculative items, the demand for these products has been slow during the past week, but there is no sign of any weakness as regards values. The limited supplies of AGAR on spot are steady, but in quiet demand. Curaçao ALOES are very firm for shipment and in firm supply. BARBASCO and DERRIS ROOTS are firm but quiet. There are signs of slightly easier terms for new crop BUCHU for shipment, but buyers seem to be in no hurry to cover. CASCARA SAGRADA has been dull, but recent values are well maintained. Norwegian COD-LIVER OIL continues dull for shipment and values are still moving down. There has been a marked lack of business in ERGOT for some little time, due no doubt to the high prices ruling. Sudan GUM ACACIA, new crop, fails to attract much business. Matto Grosso IPECAUCANHA has sold fairly well at full prices and is firm. Japanese MENTHOL shows an advance on the week, and both spot and shipment markets are governed by a strong tone. The lack of shipment offers of RHUBARB is keeping spot values very firm. Rather more business in SENNA and prices are steadier. Spot values of Para TONKA BEANS are firm, but business is slow. A modest demand for TRAGACANTH at former figures. WAXES have been rather quiet, with values unchanged on the week.

Essential Oils

Some items in this section continue in fair demand, and general business has been up to average. ANISE (STAR) is firm on spot. LEADS, in particular, are in short supply. BERGAMOT remains dull but quite steady. Japanese WHITE CAMPHOR is slightly easier, while the Chinese oil continues firm. CASSIA tends steadier for shipment. Java CITRONELLA is fully steady, and some fair business is reported; the Ceylon product remains dull and is at still lower figures. Shipment offers of HO are reported slightly firmer. A fair demand for Sicilian hand-pressed LEMON is reported and holders tend to gradually increase their quotations and to restrict their sales. LEMONGRASS is easier and dull for shipment. American NUTMEG has sold well on spot and for shipment at rates well under those quoted for oil from other sources. New crop French Guinea ORANGE is due here in about a week's time. Singapore and Seychelles PATCHOULI continue to appreciate in value, with supplies scarce and nothing offered for shipment. There has been a fair amount of speculative business in Japanese PEPPERMINT and values have advanced, with the shipment market reported strong.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	February 6	Value of the £
Amsterdam ...	Fl. to £	12·107	7·50	12/0 ¹
Berlin ...	Mks. to £	20·43	12·30	12/0 ²
Brussels ...	Belgas to £	nominal	29·43	16/9 ¹
Copenhagen ...	Kr. to £	18·159	22·40	24/8
Lisbon ...	Esc. to £	110	109 ³	19/11 ³
Madrid ...	Ptas. to £	25·221	36 ¹	28/6
Milan ...	Lire to £	92·46	62 ¹	13/5 ¹
Montreal ...	Dol. to £	4·86 ³	5·01 ³	20/6 ¹
New York ...	Dol. to £	nominal	5·01 ³	20/6 ¹
Oslo ...	Kr. to £	18·159	19·90 ²	21/11
Paris ...	Fr. to £	124·21	75 ¹	12/1
Prague ...	Kr. to £	164·25	119 ²	12/0 ⁴
Stockholm ...	Kr. to £	18·159	19·39 ²	21/4
Warsaw ...	Zloty to £	43·38	26 ¹	12/0 ³
Zurich ...	Fr. to £	25·2115	15·20	12/0 ¹

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

BUSINESS continues on rather moderate lines and the general tone is fairly steady. Products of the home makers are mostly well maintained so far as values are concerned, methyl salicylate and phenacetin being two exceptions. Spot values of most of the imported products are unsteady, very keen prices being quoted for such products as amidopyrine, barbitone, phenazone, etc.

ACETANILIDE.—Limited business, quoted unchanged: B.P. crystals and powder, 1s. 5d. to 1s. 8d. per lb., as to quantity.

AMIDOPYRINE.—Market very competitive, business quiet: crystals, five cwt., 18s. 0³d.; two cwt., 18s. 5¹d.; less than two cwt., 18s. 10²d. per lb., with powder 2¹d. per lb. extra.

AMMONIUM BENZOATE.—Business quiet, market steady: spot quoted from 3s. 4¹d. to 3s. 6d. per lb., as to quantity.

AMMONIUM ICHTHIOSULPHONATE.—Fair demand with keen prices quoted for quantities: one cwt., 1s. 0²d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10²d., in 8-oz. tins; and 2s. 1d., per lb., in 4-oz. tins.

BARBITONE.—Business remains quiet, spot quotations keen: spot, one cwt., 15s. 3¹d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 2d. per lb.

BENZOIC ACID (B.P.).—Market steady at former values: quantities, ex works, 1s. 9¹d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—British makers' prices are keeping steady. Carbonate, less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb.

BROMIDES.—The Convention prices are keeping very steady. Ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; smaller quantities, 2s. 5d. per lb.; potassium, B.P. crystals and granular, not less than 5 cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium, B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., net, without engagement. Special prices for larger quantities.

CITRIC ACID (B.P. CRYSTALS).—Market continues steady. British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAIN.—British makers' prices for this market for wholesale bulk quantities and distributors' scale for small quantities are unchanged.

CREAM OF TARTAR.—Steady business at former values. British material, 99 to 100 per cent., 79s. per cwt., less 2¹ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Dealers are quoting quantities in 25-kilo. demi-johns at about 1s. 9d., with smaller parcels from 1s. 10d. to 2s. 2d. per lb., as to quantity.

GUAIACOL CARBONATE.—Values are keeping steady in the region of 9s. to 9s. 3d. per lb. British material available.

HEXAMINE.—Makers' prices for bulk quantities are competitive; fair business: B.P. powder, from 1s. 3¹d. to 1s. 4¹d.; free-running crystals, from 1s. 7d. to 1s. 8¹d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 7¹d.; one cwt., 1s. 8d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

IODIDES.—Average demand, with makers' scale of prices steady. Potassium iodide, B.P., one cwt., 5s.; 28 lb., 5s. 2d.; 14 lb., 5s. 4d.; 7 lb., 5s. 8d.; 4 lb., 6s. 2d.; smaller quantities, 6s. 8d. per lb.

IRON QUININE CITRATE.—Makers' prices are as follows: not less than 100-oz., 10²d., in 100-oz. tins; 10²d., in 25-oz. tins; 11d., in 16-oz. bottles; 11d., in 4-oz. and 8-oz. bottles; 1s. 0²d., in 1-oz. bottles; less than 100-oz. lots, from 11d. to 1s. 4d. per oz., according to packing and quantity.

LACTIC ACID (B.P.).—Business on the quiet side: quantities in carboys, 1s. 4¹d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 9d. per lb., as to quantity.

MERCURIALS.—There is no change in makers' scales of prices. Chloride, B.P., not less than one cwt., 4s. 11d.; smaller quantities, from 5s. per lb.

METHYL SALICYLATE.—Some cutting noted in some quotations: spot, ten cwt., 1s. 5d.; five cwt., 1s. 5¹d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—The demand remains slow, quoted unchanged, but some offers are keen: two cwt., 19s. 3¹d.; one cwt., 19s. 9d.; 56 lb., 20s. 2¹d.; small parcels, 20s. 8d. per lb.

PARALDEHYDE.—Fair business, with the scale about steady: 1 w-quart, 1s. 9d.; 6 w-quarts, 1s. 7¹d.; 12 w-quarts, 1s. 5¹d.; 36

w-quarts, 1s. 4½d. per lb., carriage paid on minimum 6 w-quarts; one demijohn, 1s. 2d. per lb., carriage paid.

PHENACETIN.—A competitive market, with values at a low level: crystals or powder, bulk quantities, 2s. 6d. to 2s. 7d.; smaller parcels, 2s. 7½d. to 3s. per lb., as to quantity.

PHENAZONE.—Business very moderate, market uneasy with some cheap prices mentioned: crystals, five cwt., 8s. 9½d.; two cwt., 9s. 0½d.; and less, 9s. 3d. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Modest inquiry and prices quoted in some quarters are keen: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYL ETHYL BARBITURIC ACID.—Average business at former values ranging from 2s. 6d. to 2s. 6d. per lb., in 2-lb. bottles, as to quantity.

PIPERAZINE.—Continental material quoted as follows: in 8-oz. bottles, 11 lb., 5s. 4½d.; 2 lb., 5s. 9½d.; less, 5s. 3d. per lb., ex warehouse. In 1-oz. bottles, 11 lb., 6s. 1d.; 2 lb., 6s. 3d.; less, 6s. 9d. per lb., ex warehouse.

QUININE SALTS.—Convention scales of prices continue steady: business about normal; sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 8½d.; salicylate, 2s. 0½d.; hydrochloride, 2s. 7½d.; hydrochloride, 2s. 10d.; hydrobromide, 2s. 7½d.; bihydrobromide, 2s. 10d.; valerine, 3s. 7d.; hyposulphite, 3s. 10d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities, 100-oz. tins free; smaller packing extra.

RESORCIN.—British material is quoted steadily: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d. per lb.

SACCHARIN.—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Limited inquiry with quoted prices unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

SALOL.—Limited inquiry, market is keen: spot, crystals, two cwt., 3s. 6d.; one cwt., 3s. 6½d.; 56 lb., 3s. 7½d.; smaller parcels, up to 4s. per lb.; powder, 2½d. per lb. extra.

SANTONIN.—Prices from first-hands steady: some outside cheaper sellers. Not less than 50 kilos., £35 12s. 6d.; not less than 25 kilos., £36 1s.; less than 10 kilos., £36 9s.; not less than 3 kilos., £36 17s.; not less than 1 kilo., £38 13s. 6d.; less than 1 kilo., £39 13s. 6d. Special prices are in operation for export to all markets.

SODIUM BENZOATE (B.P.).—Fair business continues at former values; bulk quantities, about 1s. 6d.; one cwt., 1s. 7d.; small parcels, 1s. 8d. to 1s. 10½d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—The scale of prices is unchanged on quotation: spot, one cwt., 15s. 9d.; 28 lb., 16s.; 14 lb., 16s. 3d.; 7 lb., 16s. 6d.; smaller parcels, up to 17s. per lb.

SODIUM SALICYLATE (B.P.).—Makers' prices are unchanged on quotation; some offers competitive: home trade, crystals or powder, five cwt., 1s. 8½d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

STRYCHNINE SALTS.—Makers' prices are steady:

	Under 16 ozs.	16 ozs.	35 ozs.
	Per oz. s. d.	Per oz. s. d.	Per oz. s. d.
Alkaloid cryst.	2 8½	2 7	2 6½
Alkaloid powder	2 7½	2 6	2 5½
Bisulphate	2 2½	2 1	2 0½
Hydrochloride	2 5½	2 4	2 3½
Nitrate	2 3½	2 2	2 1½
Sulphate cryst.	2 4½	2 3	2 2½

25 oz. containers, free; 1-oz. bottles, 2½d.; 2-oz. bottles, 3½d. Other conditions as usual. Lower prices for bulk quantities. Wholesale distributors' prices for small quantities would be dearer.

SULPHONAL.—Some cheap offers noted, business quiet: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 9d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Average business, market steady: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

THEOBROMINE.—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb., delivered, 5-lb. tins free, smaller packages extra.

THYMOL.—Fair business with prices steady: synthetic, fine white, two cwt., 5s. 10d.; one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; less than 28 lb., 7s. 6d. per lb.; ex ajowan seed, one cwt., 8s. 7d.; 56 lb., 8s. 10d.; 28 lb., 9s. 4d.; 14 lb., 10s. per lb.

VANILLIN.—Convention prices quite steady, average business: ex clove oil or guaiacol, five cwt., 13s. 3d.; one cwt., 13s. 6d.; 56 lb., 13s. 9d.; less, 14s. per lb.

Crude Drugs, etc.

AGAR.—The demand on spot has been modest this week, with prices unchanged. New crop for shipment is receiving but little inquiry: spot, Kobe No. 1, 3s. 6d.; No. 2, 3s. 2d.; Yokohama No. 1, 3s. 2d. per lb.; shipment, new crop, March-April, Kobe No. 1, 1s. 11½d.; No. 2, 1s. 10d.; Yokohama No. 1, 1s. 10d. per lb., c.i.f.

ALOES.—A steady inquiry for Curaçao, and the shipment market is reported to be very firm and dearer. A bid sent out at 97s. 6d. was countered with an offer at 102s. 6d., c.i.f. Cape, spot, 52s. 6d., in boxes; 54s. 6d., in cases; shipment, boxes, 48s. 6d.; cases, 50s. per cwt., c.i.f. Curaçao, spot, 105s. to 110s.; shipment, about 102s. 6d. per cwt., c.i.f.

ANTIMONY.—Chinese crude for February-March shipment is quoted at £32, c.i.f. English regulus, £72 to £73, spot.

ARONICA FLOWERS.—Supplies available on spot are quoted around 1s. per lb., as to quantity.

BALSAMS.—Market has received little attention this week. *Tolu*, 1s. 6d.; *Canada*, 2s. 9d.; *Peru*, 5s. 4d. per lb., spot.

BARBASCO KOOT.—Moderate inquiry and spot root is quoted steadily from 1s. 1½d. per lb. for 5 per cent. rotenone. Shipment offers continue restricted and at fully supporting figures.

BELLADONNA.—Dealers are doing some small spot business. Leaves, 6os.; root, 52s. 6d. per cwt., spot.

BUCHU.—There is a tendency for slightly easier conditions in the shipment market for new crop leaves. Actual business seems to have been negligible. Shippers are indicating that bids in the region of 1s. 2d., c.i.f., for rounds might be accepted, but buyers are not at present interested. Spot goods are held steady at former values.

BURDOCK ROOT.—Dealers are quoting small parcels of root on spot at about 45s. per cwt. Market quiet.

CAMPHOR.—Limited business, with values maintained. Japanese, spot, tablets, 2s. 5½d.; powder, 2s. 3½d.; slabs, 2s. 3d. per lb., ex store. Shipment, tablets, 2s. 1½d.; powder, 2s. 0½d.; slabs, 2s. per lb., c.i.f. English refined is unchanged; flowers, 1 cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz. and ¼ oz., 3s. 6d. per lb., special prices for contracts and quantities.

CANTHARIDES.—Occasional spot business in limited quantities. Russian, 6s. 4½d. to 6s. od.; Chinese, 2s. 1½d. to 2s. 3d. per lb., as to quantity, spot.

CASCARA SAGRADA.—Values are keeping fully steady on account of the limited supplies available. Spot, 1932 peel, 56s.; 1933 peel, 54s.; 1934 peel, 52s. per cwt.; shipment, 1933 and 1934 peel, about 40s. and 1935 peel farm at 42s. 6d. per cwt., c.i.f.

CHAMOMILES.—Market is about steady, with a limited business passing. Quoted from 130s. for good white flowers; 115s. for medium quality and 105s. per cwt. for mixed, spot.

CLOVES.—Values are keeping steady, business on the quiet side. Zanzibar, spot, 7½d.; shipment, January-March, 6½d. per lb., c.i.f. Madagascar, in bond, 6½d.; shipment, January-March, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended February 1 were 454 and the deliveries 105, leaving a stock of 1,896. From January 1 to date the landings of Zanzibar have been 1,174 and the deliveries 335. Landings of Madagascar for the week ended February 1 were nil and the deliveries 92, leaving a stock of 1,310. From January 1 to date landings of Madagascar have been 200 and the deliveries 452 packages.

COCOA BUTTER.—Moderate business reported. Prime English, 9½d. to 10d. per lb. Foreign, 9d. to 9½d. per lb., as to quantity.

COCONUT (DESICCATED).—Market has been quieter. Spot values maintained, slightly easier forward: spot, fine, 25s. 6d.; medium, 25s. 6d. per cwt., shipment, February, 23s. 9d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market is still very quiet. Lofoten fishing is just commencing. Finest Lofoten steam refined medicinal oil, 8s.; to 8s. per barrel, c.i.f., London; spot, in small lots, about 12s. 6d. per barrel, ex store, duty paid. Newfoundland, non-freezing medicinal oil, about 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 110s. to 112s. 6d. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

DERRIS ROOT.—Inquiry has been rather quiet, but values are holding up well with the shipment market firm. Spot values range from 11d. to 1s. 2d. per lb., as to test, with the better qualities in limited supply.

ERGOT.—Business continues to be restricted by the present high values, but so far there is no general break in prices, and it is evident that supplies are very short of normal. One or two lots of Russian are reported on spot from 4s. 10d. to 5s., and other parcels are quoted at 5s. 4½d. per lb. Spanish and Portuguese on spot is held for about 7s. 4½d. New crop Russian might be booked for shipment at about 4s. 2d., c.i.f.

GENTIAN.—The recent improvement in values is maintained, with spot holders firm at 38s. 6d. to 40s. per cwt., as to quantity.

GINGER.—Market has been quiet, and the recent high values have not been maintained. West African, spot, 48s.; for arrival, 37s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 96s. to 100s.; small grinding, 70s. per cwt., in bags, ex store.

GUM ACACIA.—This market has remained dull and rather irregular on quotation: spot, Kordofan cleaned sorts, 41s. 6d.; bleached No. 1, 110s.; extra, 120s. per cwt.; shipment, Kordofan cleaned sorts, 37s. per cwt., c.i.f.

HENBANE.—Dealers are asking about 85s. per cwt. for small spot parcels. Business quiet.

HENNA.—Business has been unimportant. Indian, 30s. to 32s.; Egyptian, green, 30s.; brown, 27s. 6d. per cwt.

HONEY.—Values are keeping fully steady, limited business. Jamaican, dark manufacturing, 31s. up to 48s. for pale set. Haiti, amber to pale grainy, 24s. to 27s. 6d.; Trinidad, dark liquid, 28s. 6d. up to 42s. 6d. for pale set. San Domingo, dark liquid, 28s. 6d. in bond. Guatemala, 27s., in bond. Mexican, amber, about 27s. 6d. per cwt., in bond.

HYDRASTIS.—The spot market is firm but dull, with the price asked from 9s. per lb. The shipment market is reported stronger, and now works out at about 9s. per lb., c.i.f.

IPPECACUANHA.—There has been a steady demand for export and values are firmly held for good test root. Matto Grosso, spot, 5s. 6d. to 5s. 7½d.; shipment, 5s. 2d. per lb.

MENTHOL.—firmer conditions are reported in this market; values are on a higher level and there has been more business done. K/S brands on spot are in limited supply and now firm up to 14s. per lb.; parcels afloat are quoted up to 12s. 6d., c.i.f. Japanese shippers are quoting strongly and dearer, with February-March at 12s. 9d. to 12s. 10½d. per lb., c.i.f., with re-sellers from 12s. 7½d., c.i.f.

MERCURY.—The Spanish-Italian group report their shipment price is steady at last week's reduction and business has been on a better scale. Quoted at 61 dollars per bottle, f.o.b. Continent; spot, in small lots, £12 8s. to £12 8s. 6d. per bottle, ex store.

OPIUM.—Fair business in small lots, market steady: spot, 1s. 5d. to 1s. 5½d. per unit, landed and duty paid.

ORRIS ROOT.—Any good bold Florentine is steady on spot at 6os. Other qualities in the region of 57s. 6d. per cwt., spot.

PEPPER.—Business has been slow and values are fractionally easier. Lampung, in bond, 3d.; shipment, February-March, 2½d.; March-May, 2½d.; per lb., c.i.f. Tellicherry, spot, 5d.; shipment, February-April, 35s. 6d., c.i.f. Aleppy, spot, 4½d.; shipment, February-April, 35s. 6d., c.i.f. White Muntok, in bond, 5½d.; shipment, February-March, 4½d.; March-May, 4½d.; per lb., c.i.f.

PIMENTO.—The recent high values are being maintained, business rather slow. Spot, 7½d. per lb.; shipment, February-April, 68s. per cwt., c.i.f.

RHUBARB.—Shortage of stocks continues to support ruling values and full prices have been paid for the limited business done. Shensi is firm from 4s. 6d. to 4s. 8d. with the supply very limited. In high dried flat small stocks are held for 1s. 9d. to 1s. 10d. and the limited lots of rough round are firm at 1s. 6d. to 1s. 7d. per lb., as to quality. Nothing offering for shipment.

RUBBER.—Values are being well maintained and business has been on a good scale. Standard ribbed smoked sheet, spot, 7d.; February, 7d.; March, 7d.; April-June, 7½d.; July-September, 7½d.; October-December, 7½d. per lb.

SAFFRON.—Dealers' prices are firm and fully supported by quotations for shipment from the source: spot, B.P., 1868, prime, 48s. 6d.; extra, 46s. 6d.; super, 45s. 6d. per lb., and less for bulk quantities.

SARSAPARILLA.—Limited business, market steady: spot, Jamaican grey, 1s. 3½d. to 1s. 4d.; native, mixed colours, 11d. to 1s. per lb., as to quantity, spot. Honduras, 1s. 9d. to 1s. 10d. per lb., as to quality.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 65s.; Bulgarian, 31s. 6d. **CANARY.**—Spot, duty paid, Mazagan, 35s.; Spanish, 46s. to 50s., sellers. **CARAWAY.**—Dutch quoted at 41s., duty paid. **CORIANDER.**—Market firm, Morocco, spot, 21s. 6d., duty paid. For shipment, 18s., c.i.f., quoted. **CUMIN.**—Malta, 48s. 6d., spot. Morocco, 48s., duty paid. **FENUGREEK.**—Morocco sold at 14s. 9d., spot, duty paid. **MUSTARD.**—English, 20s. to 32s. per cwt., according to quality.

SENEGA.—Business has been of small account. Spot, 1s. 4d.; shipment maintained at 1s. 4½d. per lb., c.i.f.

SENNA.—Demand has been better with fair sales of Tinnevelly leaves. Supplies offer, on spot, as follows:—No. 1 at 6d.; No. 2 at 4½d.; No. 3 at 3d. per lb. for parcels of good green new crop. There will be no new arrivals of good green leaves for some months and spot supplies may run short in the future. Hand-picked pods have met with more inquiry on reports that supplies at origin are negligible; spot parcels offer at 4d. to 5d. per lb., according to quality. Alexandrian hand-picked pods: A few small consignments of new crop are reported as just being landed and are badly needed on this market. Prices this season are higher than that asked for similar quality at the commencement of last year's crop. Second-hand sellers are asking 6s. to 7s. 6d. per lb. for real good bold green pods, down to 1s. 3d. for ordinary old crop parcels. Manufacturing quality steady at 3½d. to 4½d. per lb.

SHELLAC.—At the lower values the market is steadier, with moderate business passing: spot, standard TN orange, 50s. to 55s.; fine orange, 72s. 6d. to 150s.; pure button, 72s. 6d. to 77s. 6d. per cwt.,

spot. For delivery, TN, March, 50s.; May, 51s. For arrival, TN, February-March, 50s. per cwt., c.i.f.

SQUILL.—Dealers' prices, according to quality, range from 42s. 6d. to 50s. per cwt. Market steady, but quiet.

SIROPHANTHUS.—Some interest is reported in the spot offers of new crop, 100 per cent. Kombé, good clean seed, at 3s. 4½d. to 3s. 6d. per lb.

TONKA BEANS.—The demand for the limited spot stocks, which have been quoted at 3s. 9d. for fair frosted Para beans, has been small. Shipment offers continue at 3s. 3d. per lb., c.i.f. Angostura, spot, 8s. 6d. per lb.

TRAGACANTH.—Business routine in character, with values, keeping steady. Druggists' qualities from £20 to £28 per cwt., ex store.

VALERIAN ROOT.—A small spot demand, with dealers quoting about 42s. 6d. per cwt., ex store.

WAX.—BEES.—Business rather limited; shipment markets steady. Abyssinian, spot, 120s.; in bond, 108s.; shipment, 105s., c.i.f. Ben-guella, spot, 120s.; shipment, 105s., c.i.f. Conakry, spot, 120s.; shipment, 106s. per cwt. **CARNAUBA.**—These products are quoted unchanged, with business rather quiet. Fatty grey, spot, 172s. 6d.; afloat, 165s.; shipment, February, 155s., c.i.f. Chalky grey, spot, 170s.; shipment, February, 160s., c.i.f. Primeira, spot, good quality, firm at 220s.; shipment, February, 200s., c.i.f. Mediana, spot, 205s.; shipment, February, 192s. 6d. per cwt., c.i.f.

Essential Oils, etc.

A FAIR amount of business is reported in these products, and values are mostly keeping up to former levels. Anise (Star) is dearer on spot. Java citronella is fully steady with the Ceylon oil dull and weak. Sicilian lemon is firm and tending dearer. American nutmeg has sold well. Japanese peppermint is dearer and firm.

ALMOND.—Values are being maintained, business rather better: English made, cwt. lots, 2s. 3d.; smaller parcels, up to 2s. 7d. per lb.; foreign, cwt. lots, 2s. 2d.; smaller parcels, 2s. 6d. per lb. French, bitter, 6s. 3d. per lb.

ANISE (STAR).—The feature of this market is the continued absence of shipment offers from the source; the spot market continues to strengthen, and there has been a fair business done at rather higher values. Leads seem to be in very short supply: spot, leads, 2s. 1½d. to 2s. 2d.; tins, 1s. 11d. to 1s. 11½d.; drums, 1s. 10½d. per lb., ex store.

BAY.—Average small spot business at competitive prices: 49 to 50 per cent., 5s. to 5s. 3d. per lb., as to quantity.

BERGAMOT.—The spot market has been persistently quiet, but holders' ideas of values are keeping steady at about 8s. 6d. to 8s. 9d. per lb., as to brand and quantity.

BOIS DE ROSE.—A modest spot inquiry with quotations for Brazilian at about 5s. 1½d. to 5s. 4½d. per lb., as to quantity and packing: shipment, quantities in drums, 4s. 9d., c.i.f.

CAJUPUT.—Dealers find business slow: B.P., 1s. 9½d. to 2s. 1½d. per lb., as to quantity.

CAMPION.—Chinese white continues firm and scarce on spot from 110s. per cwt. Japanese white is reported rather easier at the source and there are spot sellers from 105s. per cwt., in drums.

CANANGA.—Market is not meeting with much business: spot quotations irregular in the region of 11s. per lb.; shipment is dull with 9s. 6d. per lb., c.i.f., about the average figure.

CARAWAY.—Quotations for the Dutch oil are unchanged, with the Russian product offered at much lower figures: Dutch rectified, 9s. 4½d. to 9s. 9d.; crude, 9s. to 9s. 3d., landed and duty paid.

CASSIA.—Shipment seems to be a little steadier at about 3s. 1d., c.i.f., but there is not much business moving: spot offers range from 3s. 7d. to 3s. 10d. per lb., as to quality and quantity, with rather more doing.

CEDARWOOD.—Rather more interest shown. American oil, in drums, from 1s. 1½d.; smaller packing, up to 1s. 4½d. per lb. African oil, in drums, from 1s. 1½d. per lb. for good quantities.

CINNAMON LEAF.—This market keeps fully steady, business fair: Ceylon oil, spot, 2s. 7½d. for drums and up to 2s. 10½d. for smaller packings; shipment, 2s. 5d. per lb., c.i.f.

CITRONELLA.—The Ceylon product is weak and neglected. A fair inquiry and some business for Java oil, with prices keeping up steadily: Ceylon, spot, drums, about 1s.; smaller parcels, 1s. 1d. to 1s. 4d.; shipment, drums, about 9d. per lb., c.i.f. Java, spot, drums, 1s. 3d.; smaller parcels, 1s. 3½d. to 1s. 7d.; shipment, drums, 1s. 0½d. to 1s. 1d. per lb., c.i.f.

CLOVE.—Fair business, with values keeping about steady: Madagascar, spot, drums, 3s. 1½d.; smaller packings, up to 3s. 6d. per lb.; shipment, 2s. 7½d. per lb., c.i.f.

EUCALYPTUS.—Rather quiet but values are fully steady: Australian, 70 to 75 per cent., 1s. 1d. to 1s. 1½d.; 80 to 85 per cent., 1s. 2d. to 1s. 3d. per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 3d. per lb., ex store.

GERANIUM.—The source for Bourbon reports a very steady but quiet market: Bourbon, spot, 20s. 6d. to 22s. 6d.; shipment, 20s. 6d.,

c.i.f. Algerian, spot, 21s. 6d. to 22s. 6d.; shipment, 21s. per lb., c.i.f.

GINGERGRASS.—Business of small importance, values steady: spot, about 5s.; shipment, 4s. 6d. per lb., c.i.f.

GRAPE-FRUIT.—Inquiry has been rather better, with dealers quoting Empire hand-pressed oil at 16s. 6d. per lb. for small parcels.

HO (SHIU).—Business is fair at keen prices: spot quoted from 1s. 7½d. to 2s. 1½d. per lb., as to quantity and quality.

JUNIPER BERRY.—A limited business being done at keen prices: standard quality oil at about 3s. per lb. for small parcels.

LAVENDER.—Conditions continue very irregular on spot, and business has been negligible. The better tone in the shipment market is stated to be maintained: 50 to 52 per cent., 30s.; 48 to 50 per cent., 27s.; 40 to 42 per cent., 22s.; 38 to 40 per cent., about 20s.; 36 to 38 per cent., 18s. per lb., landed. Lavandin is quoted 11s. to 12s. 6d. per lb.

LEMON.—There has been again this week a steady sale from spot stocks, and the tendency continues for holders' ideas of values to become firmer. The price now ranges from 7s. 10½d. to 8s. 1½d., and some quotations are up to 8s. 3d. Holders seem to be limiting their sales to moderate quantities. Californian continues to sell in fair quantities: spot, large drums, 4s. 3d.; small drums, 4s. 3½d.; cold pressed, 6s. 3d. per lb.

LEMONGRASS.—The shipment market has been dull and is quoted easier at about 2s. per lb., c.i.f.: on spot values are mentioned at about 2s. 4d. per lb.

MANDARIN.—Supplies are now very scarce and good quality oil on spot is firmly held for about 23s. to 24s. per lb.

NEROLI.—Market is rather unsteady and business is slow: quoted from 14s. 3d. to 18s. 6d. per oz., as to quality and quantity.

NUTMEG.—The American oil is reported to have again sold freely on spot, and there has also been a good deal of booking of shipment business: values, spot, 5s. 1½d. to 5s. 4½d.; shipment, based on \$5 to the £1, about 4s. 4½d. per lb., c.i.f., in quantities. Oil of other sources continues at higher levels. English-made oil ranges from 5s. 9d. to 7s. 6d. per lb. Dutch, for shipment, about 5s. 10d. to 6s. per lb., c.i.f.

ORANGE.—There is now an acute scarcity of French Guinea oil on spot, and the price is nominally 3s. 6d. per lb., repacked in tins. Arrivals of new crop are expected in about a week's time, and some interest is shown in offers of drums in the region of 2s. 6d. per lb., landed. Sicilian oil is nominal. Californian is steady, business limited: spot, one case, 3s. 4½d.; two or more cases, 3s. 2d.; small drums, 3s. 1d. per lb.

PALMAROSA.—Offers on spot continue competitive and well below cost of replacement, but the demand is still negligible: spot, 5s. 10d. to 6s.; shipment, about 5s. 10d. per lb., c.i.f., for quantities.

PATCHOULI.—With practically nothing being shipped spot values of Singapore oil are distinctly firm at 17s. 6d. per lb. One or two small lots of Seychelles on spot firmly held for 11s. to 11s. 6d. per lb.

PEPPERMINT.—There has been a good deal of business done this week, mostly of a speculative character, and values are dearer: on spot Japanese is quoted firm at 5s. 4½d. The source reports the market firm with shippers quoting February-March from 5s. 8d. to 5s. 10d., c.i.f., with re-sellers asking 5s. 3d. to 5s. 4½d., c.i.f., for the same position, with business done. Japanese shippers indicate still higher figures for April-May shipment. The source reports that value for American natural oil of 50 per cent. menthol is firm and not less than 2 dollars 10 cents per lb., c.i.f., in drums. Oil of lower menthol content about 1 dollar 95 cents, as to quality.

PERITGRAIN.—Dealers are doing some small spot business, with prices about 3s. 10d. to 4s.; shipment, 3s. 6d. per lb., c.i.f.

ROSEMARY.—Prices quoted on spot vary considerably, according to quality of oil. A genuine oil is worth 2s. 3d. to 2s. 6d. per lb., as to quantity, but there are cheaper offers.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot: market is rather unsteady, with cheaper offers in some quarters, particularly for good quantities. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 3d. per lb.

SASSAFRAS.—Not much demand for good quantities: spot, 3s. 7½d. to 3s. 10d. per lb., as to quantity. Artificial oil at cheaper prices.

SPIKE.—A slow market and quotations continue irregular and at low levels: spot, about 4s. to 4s. 6d. per lb., as to quality.

VETIVERT.—Shipment offers are being received for Bourbon in the region of 31s. per lb., c.i.f., with small parcels on spot quoted at about 38s. 6d. per lb.

WORMSFEED.—On spot and from the source quotations vary as to quality, but U.S.P. oil is maintained at about 8s. 4½d., c.i.f., with spot from 8s. 6d. to 8s. 9d. per lb.

Commercial Notes

GERMAN IODINE TRADE.—Imports of iodine, which fell from 150 metric tons in 1931 to 68 in 1932, increased to 205 tons during the first 10 months of 1935, of which Chile supplied 202 tons. Germany is an exporter of iodine and its derivatives. Shipments of crude iodine in 1931 totalled 62 tons; in the first 10 months of 1935 shipments were 44 tons.

U.S.A. CAMPHOR IMPORTS.—Imports entered for consumption during the eleven months ending November, 1935, increased 30 per cent. over the quantity imported during the corresponding period of 1934. The following table shows imports of both synthetic and natural camphor:

	11 months—1934		11 months—1935	
	Lb.	Value \$	Lb.	Value \$
Natural, crude...	2,662,714	646,023	1,329,237	364,303
" refined	1,367,266	545,713	1,131,357	442,092
Synthetic	598,798	233,751	785,685	274,378

MADAGASCAR ESSENTIAL OIL EXPORTS.—Shipments during January-June, 1935, and comparative figures for the same period of 1934, were as follows:

	Jan.-June, 1935		Jan.-June, 1934	
	Kilos.	Kilos.	Kilos.	Kilos.
Geranium	274	469		
Ylang Ylang	14,888	11,048		
Clove	70,433	48,879		
Lemongrass	23,707	20,957		
Patchouli	310	321		
Others	788	1,153		
Total	110,400	82,827		

Exports of essential oils from Madagascar dropped slightly from 220,316 kilos. in 1933 to 214,783 in 1934.

MADAGASCAR CLOVE OIL.—Exports since 1913 were as follows:

Year	Kilos.	Year	Kilos.	Year	Kilos.	Year	Kilos.
1913	1,450	1918	1,350	1923	17,290	1928	60,160
1914	320	1919	2,770	1924	25,470	1929	88,870
1915	280	1920	3,130	1925	27,770	1930	103,270
1916	940	1921	7,160	1926	31,140	1931	117,300
1917	650	1922	10,560	1927	47,510	1932	135,460

The usual charge of a 1,000 litres still is 280 to 300 kilos. of leaves, the distillation of which takes 20 to 24 hours, with a yield of 5 to 5½ litres of oil per charge. Stills are owned by Europeans, Creole planters and natives. In the Soanierana district some stills are owned by a European trading firm and leased to the natives who pay in oil on a basis of local ruling price. Leaves are obtained by topping about 3 ft. of the tree, large trees yielding up to 100 kilos. of twigs and leaves, with the average for trees over 20 years old, about 50 kilos. and trees under 20 years old 25 kilos. The twigs and leaves are left under the trees for a couple of days to dry, and then placed in the still without stripping. The topping process is increasing and causing serious damage to the future crops of cloves. In Sainte Marie the dry fallen leaves also are gathered for distilling.

JAVA CITRONELLA OIL EXPORTS.—Shipments from Java during July-September, 1935, amounted to 380,038 kilog., valued at 288,957 francs, compared with 434,683 kilog., valued at 413,169 francs, during the corresponding period of 1934. Total exports for the first nine months of 1935 amounted to 1,232,750 kilog., valued at 950,449 francs, compared with 1,260,702 kilog., valued at 1,451,980 francs, during the same period of 1934. Shipments to the United States amounted to 272 metric tons during January-September, 1935, while exports to France increased to 204 tons. Shipments to the principal markets during the first nine months of 1934 and 1935 are shown in the following table in metric tons:

	January-September, 1934		January-September, 1935	
	Total	All others	Total	All others
Netherlands	75	87	191	172
Great Britain	242	294	120	125
France	493	272	69	113
United States	160	173		
Japan				
All others				
Total	1,260	1,232		

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Poisons List and Rules

SIR.—In your editorial article on "The Art of Interrogation" (*C. & D.*, February 1, p. 131) you refer to the difficulty of getting the required wording on small-sized labels. This may prove another instance of restrictions leading to the disuse of an article; if it is found impracticable to label an article conveniently according to the law, pharmacists will discontinue selling it. I think that pharmacists have lost something by the transference of lysol from Part I to Part II; if lysol can be transferred to Part II, so can any other poison which may be claimed to be in public demand. What is the use of definitely appointing registered pharmacists as "authorised sellers of poisons" under the Act, and then largely abrogating that authority by providing for any number of unauthorised, but listed, sellers of poisons and their deputies? Further, is there any reason why a registered pharmacist with appropriate premises should not apply to his local council to be a listed seller of poisons? He would then be able to appoint his deputy as other traders may.—Faithfully yours,

AUTHORISATION (3/2).

SIR.—Your correspondent "W. R. B." (*C. & D.*, February 1, p. 140), when he refers to listed sellers being allowed to break bulk, puts the supposition that they may be supplied with lysol in pint bottles marked "2d. an ounce." He overlooks the restriction with regard to this breaking of bulk laid down in Rule 14, by which a listed seller of Part II poisons can only break bulk in the case of ammonia, hydrochloric acid, nitric acid, potassium quadroxalate and sulphuric acid. The question is whether the new regulations will be adhered to more strictly than the old. This observance will depend largely on the amount of inspection carried out by the local authorities.

Yours, etc.,
ISPETTORE (4/2).

Chemists' Friends Scheme

SIR.—As a good old "constant reader," I wonder if the viewpoint of one some thousands of miles away on the Chemists' Friends scheme will be of interest. We have out here just the same jealousies and shortsightedness amongst chemists as you have at home, but we have one great advantage. A well-known firm has brought out a line of products for some years past, covering more than 200 items, all of which are reserved to chemists alone. This series has been kept out of the stores, grocers and cutters by some amount of sacrifice on the part of the producers, as I have reason to know that large quantities, far more than any chemist could take, would be bought by the stores, if they could get them. But they cannot, and in cases where supplies have been bought they have been traced after some difficulty and supplies stopped. There is no doubt this has been a very great boon to those who handle the lines. Now it seems to me at this distance that a similar method would be the salvation of the trade at home. It works well out here because there is confidence on the part of the maker and on the part of the retailer. I cannot see how nationally advertised remedies can be kept solely in the hands of chemists; it is asking too much of the makers. That being so, it seems to me that hope lies in the selling and pushing of those lines which I think you have at home, which are reserved for chemists. My sympathies go out to the trade at home, as apparently the Society do not care a rap about the well-being of the chemist. It is quite futile to talk of "ideals"—those can and should be a personal matter, and each one alone has to answer for the standard of his ideals. But as servants of the public (and so with a right to proper remuneration), any talk of ideals and standards of the profession is pure piffle. All trade unions, including the medical, legal and dental professions, have some sort of code to which their members adhere; and although it would be untrue to say that the governing bodies look after the remuneration of the members of the three professions indicated, yet there is some kind of standard.—Yours faithfully,

OLD READER IN SOUTH AFRICA (3/2).

Will the Private Chemist Survive?

SIR.—Is not the letter of Mr. E. E. Olding (*C. & D.*, February 1, p. 141) somewhat convoluted? After re-reading, I am still uncertain whether the suggestions put forward were intended to kill off the private chemist or aid his survival. May I follow his points by number? (1) Does the process of "ignoring the carboys in our windows" really create bigger sales, or does it collect dust and so create appearances which are detrimental to business? For 100 years or more those coloured flasks have been a valuable asset to pharmacy. (2) This, although the letter is addressed mainly to the proprietor pharmacist, appeals to employees only and is distinctly controversial. Presumably it supports the share-out of a non-existent equalisation fund. (3) Here, pharmacy is incited to pursue a cheap and tawdry nastiness. Flaunt tinsel and bunting; shut out natural light and turn on artificial flickerings. Garnish the ever-changing errand-lad; this week like the hotel "buttons," his successor a replica from the cinema. Why not institute an orchestra, and in many similar ways "show respect to old-time pharmacy" and "render valuable service to the public"? "Festina lente" is still a good motto.

Yours, etc.,
OLD FOGEY, M.P.S. (4/2).

Registered Pharmacist or Listed Seller?

SIR.—In the course of my work the other day I met an experienced pharmacist who gave me ample matter for thought; and without identifying myself with his conclusions, I pass on, in the first person, the substance of what he said. It was to this effect. I have had enough of the life of a registered pharmacist in business: I am seriously thinking of dropping my registration and becoming a herbalist and listed seller. All the poisons that count from the point of view of revenue will be saleable by me or one of my two deputies, and I shall pay an annual fee of 5s. after the first year. Having served an indentured apprenticeship, I shall be able to sell known, admitted and approved remedies unstamped. I shall apply to be recognised as a vendor of Chemists' Friends goods, being in fact a chemist and druggist by examination. As to N.H.I. dispensing, it never paid, and the first trivial error in a quantity may be visited by a fine of £5 at the sweet will of the local insurance committee. Inspection of shops? I had much rather be inspected by a local authority than by the Pharmaceutical Society: history tells us that tyrants are recruited from our own ranks, and in any case I do not wish the details of my business to be card-indexed in a London office. I shall be able to prescribe for my customers as before, with negligible changes in formulas. Status? Well, my personality should settle that item in my own locality.—I am, etc.,

A. E. (4/2).

Hand-to-Mouth Buying

SIR.—There is no doubt that hand-to-mouth buying has been forced on the retail chemist by the present conditions of trading. As well as the three factors mentioned by your contributor (*C. & D.*, February 1, p. 123) there are other reasons why the chemist has to confine his orders to small amounts. One of these is the practice some manufacturers of proprietaries have of frequently changing the style or size of pack; they are not always willing to exchange existing stocks, and the chemist cannot afford to be caught with a large stock in case of an alteration. Other manufacturers bring out new lines which are in reality only modifications of their old ones, notably in toilet soaps and face powders; the chemist then has a few customers who prefer the old style and some who require the new. On one occasion a 3s. proprietary was advertised and sampled locally without any previous notification to the local chemists; a sudden demand brought a small crop of orders, and even the wholesalers were caught out temporarily. By the time I received my stock both the advertising and the demand had vanished, and I was left with another addition to the shelf warmers. It is, however, rather surprising to me to read that this hand-to-mouth buying has extended to drugs, as the same

objections do not apply with regard to new lines or change of style. It is not difficult to ascertain the average amount used during a given period and to purchase accordingly.

Yours, etc.,
EMPTOR (3/2).

The Great Adventure

SIR.—“Pronto” is even more entitled to be called Jeremiah than I. What a vision he conjures up (*C. & D.*, February 1, p. 141) of vexation and irritation when the new machinery gets going! Soon we shall be singing that well-known refrain, “They only do it to annoy. Because they know it teases!” I notice that a number of pharmacists have not yet paid their registration fees. Can they be passive resisters? Our growing ills are attributed by a not inconsiderable body of pharmacists, in part at least, to “Square” activities. Thank goodness we still have THE CHEMIST AND DRUGGIST to fight the battles of the ordinary, struggling pharmacist. It is to be hoped that “Pronto’s” suggestion will be at once adopted by the Society and some statement be forthcoming as to what we are to expect when the inspectors descend upon us.

Yours truly,
JEREMIAH JUNIOR (3/2).

“ Hunguentum Hydrargyri ”

SIR.—The above is a new synonym for unguentum hydrargyri, suggested by three recent prosecutions in London on the basis of “not of the nature and substance demanded,” and doubtless accepted by the victims. And so the merry old game of “catch as catch can” goes on.... Two of the victims had in mind the benefit of the customer and assumed user; and it cost them £17 2s. for exhibiting that consideration. But bide a wee. I note that the secretary of the Pharmaceutical Society made this curious statement at Leeds: “They [the alterations made by the Home Secretary in the Poisons List and Rules] must be judged by chemists with the realisation that the Home Secretary’s point of view was that of the public rather than that of the pharmacist”; so now I guess these victims of law will wonder just where they are. They must have had the Home Secretary’s point of view in mind; and are now fully assured that the pharmacist’s point of view and the exercise thereof is an expensive hobby. Anyhow, the next time a dear old lady comes in here for 4 lb. of carbonate of soda, she’ll get it—though I shall know full well she wants the bicarbonate.... Let us now consider the assumed point of view of the Home Secretary, “the protection of the public.” Have not pharmacists, the very great majority, invariably conducted their businesses in the interests of and for the protection and welfare of the public? The answer is emphatically “Yes!” Each pharmacist arranges and conducts his own shop in a manner suitable to himself, his customers and his business generally. This system works: yet apparently we are to be visited, in the future, by inspectors who, knowing nothing whatever about the particular procedure we have adopted and found satisfactory, will tell us how to do it—which is like teaching grandma how to suck eggs. Assuming, quite reasonably, that I will be one of the earliest worms to “get the bird,” I have decided on a course of conduct. When the inspector introduces himself, I shall say “Very good: you are the man who knows how to run my business; take charge; I’ll find what you want.” I know full well what would happen. The majority of my customers would decline, respectfully or otherwise, to have anything to do with him; they’d want the inspected, the man who is not supposed to know, in preference to the man who is. He would be unable to dispense most of the N.H.I. scripts because he would not be able to read them, and with no previous knowledge would not guess right. In fact, within an hour at the utmost he would most likely decide that the best person to conduct this business was the present conductor. If he were sensible enough so to decide, I’d buy him a “pint” and send him on his way rejoicing.

Yours, etc.,
GEORGE F. CORRALL.

Enfield Wash.

An Offer

SIR.—The aims of the Chemists’ Friends scheme make the latest offer of the manufacturers of Bisurated Magnesia very interesting reading. Here is a firm asking us to support them in putting upon the market a line which will be in direct competition with some of our own best-selling proprietaries, with

the possibility of shortly going into certain bazaars, and which gives us, apart from large parcels, which few chemists will be able to buy, the marvellous profit of 14d. If any pharmacists are caught by the sprat of fourteen to the dozen they will deserve all they will ultimately earn. These manufacturers are not even Chemists’ Friends. It is time they and others realised that if they want our co-operation they must pay for it, not only in cash but in like co-operation.—Yours sincerely,

E. A. ATKINS.

London, S.W.18.

[The International Chemical Co., Ltd., Braydon Road, N.16, send the following observations on Mr. Atkins’s letter:—

We would say that it has been the settled policy of this firm, particularly during the last three years, to take every step to secure the active co-operation of the chemist, and to this end we have recently spent many thousands of pounds. Therefore, in accordance with this policy, we are giving the Chemists’ Friends scheme our sympathetic consideration. With regard to the new 6d. pack of Bisurated Magnesia, this was introduced by us to meet a specific demand from the Depressed Areas, particularly in the North and in South Wales, and we have no reason to suppose that this demand cannot be satisfactorily filled through our chemist friends. With regard to the profit on this line, the Bisurated Magnesia 6d. size is a counter display line, and as such is sold on fourteen to the dozen terms, giving the chemist a profit of 2s. 3d. on his outlay of 4s. 9d. In conclusion we would like to inform you that we have received, particularly during the last few years, many letters from chemists, informing us how much they have appreciated the friendly spirit of co-operation which has been—and will continue to be—such a feature of this firm’s trading policy.]

Subscribers’ Symposium

For interchange of opinion among “C. & D.” readers and brief notes on business and practical topics.

Matured Vaccines?

A Scottish doctor who freely prescribes prophylactic vaccines found that to one batch several patients reacted with an acute erythema. The source of manufacture was beyond reproach. Investigations were instituted, and it was found that this particular batch had been recently made. Older batches were later tried and the results were perfectly satisfactory. Should vaccines have a period for maturing, and what should the period be?—L. H. H. (27/1).

“Postage Stamp” Labels

In reply to one of the questions put by Mr. A. M. Bryan, as to the printing of a lot of relevant matter on a small label (*C. & D.*, January 25, p. 97), the secretary [of the Pharmaceutical Society] immediately suggested the type of label known as a “flag label,” now in use for hypodermic tablets, etc. Mr. Linstead answered about seventy questions without any hesitation.—G. C. Crummack, Hon. Sec., Leeds and District Branch of the Pharmaceutical Society.

Appreciations

This is a word of thanks and appreciation of the Pharmacist’s Poison List and Poisons Code Synopsis in the *C. & D. Diary* for 1936. The comprehensive List supplied and the ready means of finding how each article should be dealt with is really excellent. I am sure there are many pharmacists like myself who found tremendous difficulty not only with the legal phraseology but also with the complicated exemptions, etc., and probably gave up the task of deciphering the Act in despair. You have all earned our gratitude.—J. M. Edwards, London, S.E.16.

As a retail chemist I thank THE CHEMIST AND DRUGGIST for the Extended Poisons List published in the *Diary*. When one sees that the list of items takes up nearly fourteen pages of four columns each, one realises the amount of time and labour it must have taken to prepare. It will be seen by referring to p. 262 of the *Diary* that there are no fewer than fifteen different classes of poisons, showing the increase of responsibility incurred by the retail chemist in their sale, and the practical impossibility of referring any particular one to its appropriate class during the rush of business without such a list as you have provided, showing at a glance the required entries and labelling for each item.—*Tablet* (30/12)

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

E. D. (21/II).—**VANILLA EXTRACT.**—The best method of preparing vanilla extract consists in steeping the chopped beans in alcohol of a certain strength for a number of weeks, after which the extract obtained is matured for some time. Nevertheless, there is often a marked difference between one extract and another, a difference usually due to the quality of the raw materials. It is a common practice to fortify pure extracts with such substances as vanillin, coumarin, heliotropin and other bodies. In all such cases, the delicate flavour of vanilla is to a greater or lesser extent destroyed. The following formulas are among those given in "Pharmaceutical Formulas," Vol. I:—

	I	
Fine vanilla (cut small)	oz. j.
Isopropyl alcohol	oz. xvij.

Macerate for a month and filter.

	II	
Vanillin	gr. Cx.
Coumarin	gr. viij.
Alcohol (95 per cent.)	oz. viiss.
Glycerin	oz. v.
Syrup	oz. v.
Compound tincture of cudbear	oz. v.
Distilled water	to oz. xl.

Dissolve the vanillin and coumarin in the alcohol, add the glycerin, syrup and tincture, and finally make up to measure with water. Manufacturers of concentrated essences of vanilla prepare them by evaporating the ordinary vanilla essence *in vacuo*. The amount of alcohol in the ice cream due to the flavouring would be very small, and the freezing out to which you refer may be due to one of the other ingredients in the mix.

R. S. (31/II).—**PIG POWDERS.**—We think the following formulas for tonic powders for pigs will meet your requirements:—

	I.	
Pulv. carbo. lign.	1 part
Flor. sulphur.	1 part
Sodii chlorid.	2 parts
Pulv. sodii sulphat.	1 part
Pulv. sodii bicarb.	2 parts
Pulv. gentian.	1 part

Mix one ounce of this tonic with every ten pounds of meal fed.

	II.	
Pulv. ferri sesquioxid.	3 ss.
Pulv. sodii sulphat.	3 ss.
Pulv. gentian.	3 ss.
Pulv. gycorrhizae	3 ss.

Give half a powder daily to pigs under fourteen weeks old and one daily to pigs over that age, in their food as required.

B. C. (10/II).—**DISINFECTANT SPRAYS.**—The following are formulas for disinfectant sprays:—

	I.	III.	IV.		
Pine needle oil	... . . .	2 oz.	Thymol	... . . .	30 gr.
Solution of formaldehyde	2 oz.		Oil of eucalyptus	... . . .	2 dr.
Acetone	... . . .	6 oz.	Oil of lavender	... . . .	2 dr.
Isopropyl alcohol	... . . .	to 20 oz.	Alcohol	... . . .	6 oz.
Mix one ounce with a pint of water.			Distilled water	... . . .	to 10 oz.

	II.	
Soft soap	3 oz.
Isopropyl alcohol (or industrial methylated spirit)	3 oz.
Perfume	2½ oz.
Solution of formaldehyde	2 oz.
For use, mix 2 oz. of this solution with one gallon of water, or less if necessary.		

J. I. (24/II).—**CLEANING POWDER FOR DISHES.**—This powder, which is stated to be very good for cleaning cooking utensils and dishes, consists of dried sodium carbonate with a little borax, powdered soap and a gritty substance which is possibly sodium silicate. The powder is quite harmless in use.

M. C. K. (21/II).—**SKIN FOODS.**—Skin foods are often called "night creams," but the term is likely to cause confusion with cleansing creams, as these should also be used at night. Skin foods comprise any combination of fats and oils that can be absorbed by the skin. Lanolin, cacao butter, almond and olive oils have been the ingredients for years; today cholesterol and turtle oil are receiving attention. A simple formula for a skin food is:—

Almond oil	... . . .	... . . .	8 oz.
Beeswax	... . . .	... . . .	1½ oz.
Lanolin (hydrous)	... . . .	... . . .	1½ oz.

The almond oil should be benzoated to help to preserve it. This forms a somewhat stiff cream, the object being to make necessary such massage as is beneficial to the skin. A milling machine is needed, otherwise the cream will have a semi-transparent appearance. Another preparation of a like nature may be made from:—

Beeswax	... . . .	... . . .	... . . .	1 oz.
Lanolin	... . . .	... . . .	... . . .	4 oz.
Cacao butter	... . . .	... . . .	... . . .	2 oz.
Olive oil (benzoated)	... . . .	... . . .	... . . .	2 oz.
Petroleum jelly	... . . .	... . . .	... . . .	10 oz.

This also needs milling. The formula shown below is a cheaper type:—

Petroleum jelly	... . . .	... . . .	... . . .	8 oz.
Olive oil	... . . .	... . . .	... . . .	8 oz.
Beeswax	... . . .	... . . .	... . . .	2½ oz.
Cacao butter	... . . .	... . . .	... . . .	1 oz.
Lanolin	... . . .	... . . .	... . . .	3 oz.
Water	... . . .	... . . .	... . . .	5 oz.
Borax	... . . .	... . . .	... . . .	20 gr.

The addition of borax will give an opaque cream, but it will have to be stirred until nearly cold.

D. L. (31/II).—**ABSORPTION OF MAGNESIUM SULPHATE.**—The mechanism of the action of magnesium sulphate (other than as an aperient) is not yet thoroughly understood. Some believe that it prevents the laying down of fat, but there does not appear to be any conclusive evidence one way or the other. In general, so far as absorption of drugs through the skin is concerned, the healthy epidermis is considered to be impervious to drugs, but as it is pierced by the ducts of the sweat glands and hair follicles any absorption that occurs through the skin occurs through these ducts. On the whole it can be accepted that there is general agreement that drugs applied in watery solution to the human skin are not absorbed. Nevertheless, in some inexplicable manner, magnesium sulphate solution has been known to reduce swellings around the ankles.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," February 15, 1886

Registration Statistics

The registrar's report, recently published, shows that the total number of persons on the [British] Registers of Pharmaceutical Chemists and Chemists and Druggists on December 31, 1885, was 13,567, which is an increase of 167 names; but, as the usual biennial scrutiny of the list was not made in 1885, it may be taken that the actual number of persons qualified to call themselves "chemists and druggists" in Great Britain is about stationary. The number added last year by examination was 351, and by proving their right to registration or restoration without examination, 28. Pharmaceutical chemists number 2,219 of the total. . . . The examination records show that during the year 1,278 candidates presented themselves for the Preliminary examination, of whom 690 passed. That, it may be remarked, as is shown by the other figures quoted, is just about twice as many as the trade here can absorb. For the Major examination there were 87 candidates in London, of whom 47 passed, and 13 in Edinburgh, of whom 6 passed. There were 744 candidates for the Minor in London, and of these only 255 passed; in Edinburgh there were 211 candidates and 96 passed.

February 8, 1936

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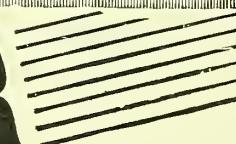
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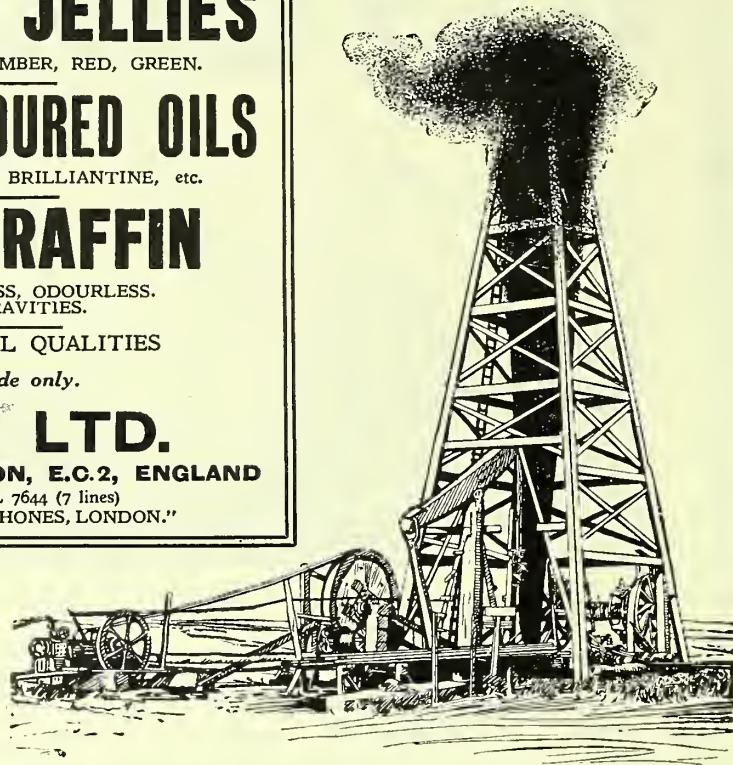
WHITE & COLOURED OILS
YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

LIQUID PARAFFIN
COLOURLESS, TASTELESS, ODOURLESS.
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

Wholesale Trade only.

STERNS LTD.
16 FINSBURY SQ., LONDON, E.C.2, ENGLAND
Telephone: NATIONAL 7644 (7 lines)
Telegrams: "CENTUMVIR, PHONES, LONDON."



The
SINGLE DOSE
of
Cephos
Pronounced See-foss REGD
THE PHYSICIAN'S REMEDY

at **2d**

To those many customers who only buy for their immediate needs the single dose of Cephos may be recommended by you with every confidence.

And to those who may be persuaded to try Cephos, the price is convenient, and will open the way to valuable regular purchases of the larger packets.

CEPHOS Ltd., Blackburn

POWDER or TABLETS
has a ready
sale for
**HEADACHE
COLDS
INFLUENZA**

"TESTONIC" A Glandular Preparation for Vital Energy
GUARANTEED SAFE AND EFFECTIVE

VERY Attractive Trade Discounts Allowed

Dignified and arresting Display Material. Sales Promoting Literature and Dummies Free. Handsomely Packed in three sizes to retail at

5/- 10/6 & 21/-

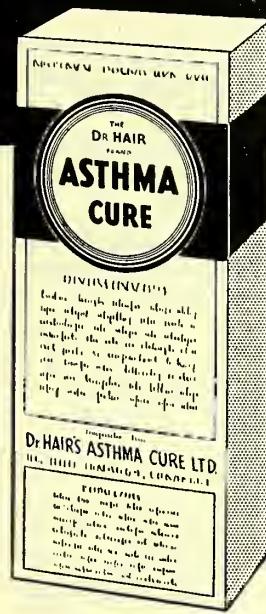
Sole Agents : AXA LTD.
17-21 Emerald St., Theobalds Rd., London, W.C.1
HOLBORN 9967

MORE SALES OF
BESORBON

Are made if the Counter Container is displayed. Always order one dozen tins of Besorbon and obtain attractive counter display container. See pp. ix and xiii of this issue.

KEMSALES LTD., 20, EASTCHEAP, E.C.3

SALES FIGURES ARE WELL UP ALREADY!



This is the new pack

It's profitable to push the Dr. HAIR (BRAND) ASTHMA CURE

It's only a short time since the start of the big new advertising campaign for the Dr. Hair (brand) Asthma Cure—but already we hear from all parts of the country that sales are going up strongly.

There's money in this Dr. Hair sales drive for *you*. Since January 1st the *minimum* discount on all the Dr. Hair (brand) Remedies is 25%.

Make a good show of the Dr. Hair line! Put the colourful new packs on your counter. Use the effective new Display Material in your window. Let all your customers know of the much better value for money of the new Dr. Hair line.

GIVE PREFERENCE TO A P.A.T.A. LINE

All the Dr. Hair (brand) Remedies are on the P.A.T.A. list. All prices are reduced (the 'Asthma Cure' bottles are also 33½% bigger).

All discounts are up—to a minimum of 25%

It pays you to push the P. A. T. A. line—the Dr. Hair (brand) Remedies.

DR. HAIR'S ASTHMA CURE LTD.

STANWELL MOOR, STAINES, MIDDLESEX
(Late of 104 High Holborn, W.C.1)

February 8, 1936

Compound Syrup of HypophosphitesTRADE **"FELLOWS"** MARK

The ideas supported by the medical world today on the therapeutic value of calcium and other mineral salts, were embodied 60 years ago in "FELLOWS."

The only preparation of its kind then, "FELLOWS" still stands alone for its tonic qualities in the treatment of rundown conditions of health and the many forms of anaemia and nervous ailments which so often result.

It stimulates the appetite, aids digestion, and is valuable as a stimulant and tonic to overcome mental and physical exhaustion; and as an aid in combating the invasion of the Tuberculous Processes.

"FELLOWS" has never been successfully imitated.

FELLOWS MEDICAL MANUFACTURING CO., Ltd.

286 St. Paul Street West, Montreal, Canada.

Laboratories:

UNITED STATES	GERMANY	ITALY	SPAIN	MEXICO
ROUMANIA	ARGENTINE	REP. COLOMBIA	AUSTRALIA	NEW ZEALAND

For Coughs, Colds,
Influenza,
etc.

"ZEMS"
HERBAL LIQUORICE TABLETS

6^{D.}
PER BOX

STOCKED
BY ALL LEADING
WHOLESAVERS.
Prepd. by ZEMS LTD.
GLADSTONE LABORATORIES
113 PARK AVENUE,
WILLESDEN GREEN, N.W.10

**HARKNESS, BEAUMONT
& CO., LTD.**

*Wholesale and Export Druggists,
Malt Extract Manufacturers.*

JUNCTION BRIDGE WORKS, LEITH.

Manufacturers of all kinds of Malt Products, Lacto-maltine, Sunray Malt and Malt and Oil, Strethol Vitamin Malt, Kem-Malt (Malt Extract with Parrish's Food), Kem-Malt and Oil (Malt and Oil with Parrish's Food), Bonum Irradiated Emulsion, Bonum Cod Liver Oil Emulsion, Sunray Vitamin Cream, Liquid Extract of Malt, Special Liquid Cascara, Cascara Cordial, Sunray and Lucca Cream Olive Oils, and General Packed Specialties.

Telegrams: "Mercury" Edinburgh. Telephone: Leith 1326-1328

Antiphlogistine
Brand Dressing

HUMAN & VETERINARY
MADE IN ENGLAND

Write for Special Quantity Terms

The Denver Chemical Mfg. Co., Carlisle Road, London, N.W.9

TANNIGEL

*a soothing and healing
non-greasy aseptic jelly
containing TANNIC & ACID PHENOL*

FOR

*the treatment of
BURNS
and
SCALDS*

PARTICULARS AND PRICES FROM
GALE, BAISS & CO., LTD.
CANTERBURY ROAD, LONDON, S.E.15

The "SPECIAL" Back, Kidney and Bladder Pills

A 1/3 line costing 5/6 per dozen
"THE BOX WITH THE PINK WRAPPER"
Always gives satisfaction.

The ACTON PILL & TABLET CO. LTD., Ash Vale, SURREY

Are you stocking

YESTAMIN?

Dried Yeast in its most concentrated and most convenient form—powder and tablets. Generous terms and good discounts. Write today to:
WOOLDRIDGE MEDICINE Co., Ltd., 16 Cedars Rd., London, S.W.4

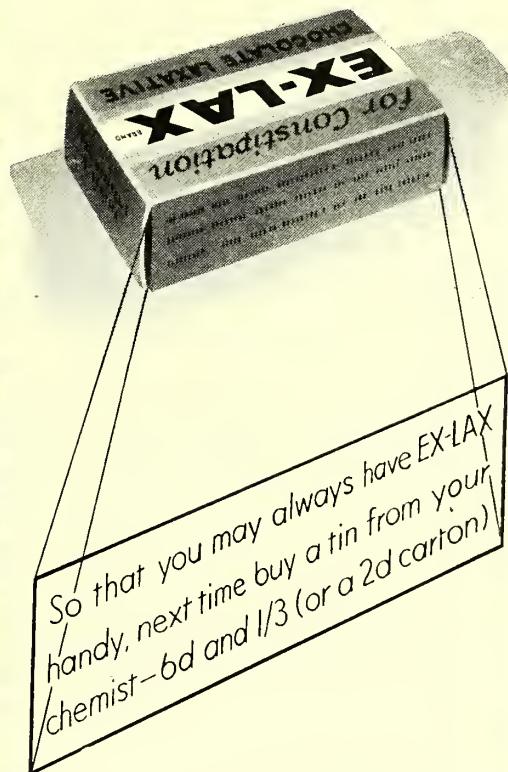
Advertising in
PUNCH commences with that paper's 3 special issues of February 26th, March 4th, and March 11th, each circulated to three times as many households as usual.

3 times 3

BESORBON

KEMS SALES LTD., 20, EASTCHEAP, E.C.3

"FROM YOUR CHEMIST"



Millions of 'EX-LAX' samples bearing this message will be distributed to British households during 1936.

EX-LAX
CHOCOLATE LAXATIVE

Ex-Lax Ltd., Slough, Bucks

Established 1880**H. E. STEVENSON & Co., Ltd.**10 Paneras Lane,
Queen Victoria Street, London, E.C.4**Halibut
Liver Oil**

Finest Refined Quality

Biologically standardised for Vitamin A
& D and free from any added Vitamin.**IN BULK**

Or in

5 c.c. vials in cartons. 15/- per dozen.

Also in

Bottles of 25 x 3m Capsules beautifully
packed. 17/- per dozen.**H.L.O. Emulsion****IN DEMAND****TAMAR
INDIEN
GRILLON**Always advertised—so always in
demand! This superior fruit lax-
ative has been popular amongst
the best class of customer for
half a century.**Dr. Jaillet's
PEPTO-FER**A delicious and most effective
tonic; the prescription of a noted
French chemist. Immensely valued
as a pick-me-up for convale-
scents and a fine tonic for anaemics.**RIGOLLOT'S
MUSTARD
LEAVES**Excellent counter irritants, cre-
ating a powerful revulsive
action.**RIGOLLOT'S
MUSTARD
(for veterinary
purposes)**A useful line for the chemist in
a country neighbourhood.

All enquiries (except for Pepto-Fer) to:

GUYOT-GUENIN & SON (Dept. C.D.)
59 Southwark Bridge Road, London, S.E.1.

For Pepto-Fer, please write direct to:

Dept. C.D., DARRASSE FRÈRES,
13 rue Pavée, Paris IV, France.**Rivista Italiana delle Essenze, dei Profumi
e delle Piante officinali**

EIGHTEENTH YEAR OF PUBLICATION

OFFICIAL ORGAN OF THE FENACHIMICI*Director :*

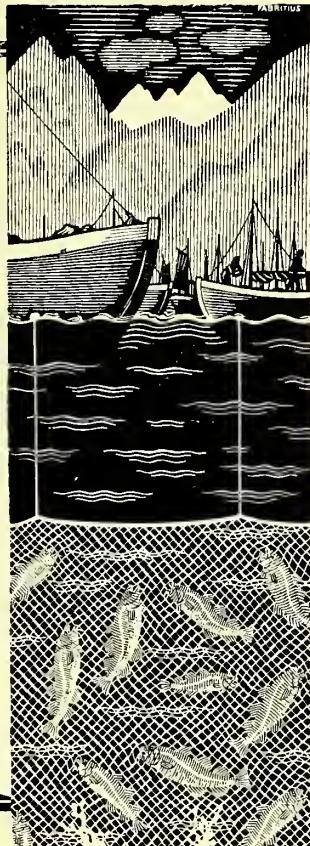
Dr. EMMA FENAROLI

Editorial Offices :

VIA S. VINCENZO N.38 MILAN

*Telephone : 31 216-C.P.850*Producers of Aromatic Substances for Perfumery—Manu-
facturers of Articles used in the Perfumery Trade—This is
the Periodical in which to Advertise effectively in Italy.**MAKE USE OF ITS ADVANTAGES**

SAMPLE COPY AND TARIFF ON REQUEST



4



For grown-ups and children Norwegian Cod Liver Oil is the very best bulwark against infections and the most effective weapon for fighting an impaired organism and illness.

NORWEGIAN COD LIVER OIL

WORLD—RENNOWNED FOR QUALITY

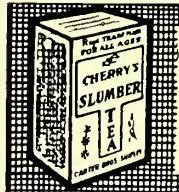
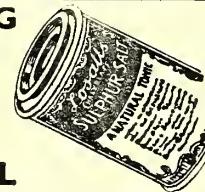
50%
PROFIT

A LINE THAT IS WELL WORTH SELLING LOSALL'S SALT

for GOUT, RHEUMATISM, ECOZEMA AND SKIN AFFECTIONS

This chalybeate sulphur salt has a world-wide reputation. It makes an excellent window show—is worthy of your recommendation and is a most profitable line; Ask us for special display terms. Full size sample tin gladly sent on application to:

LOFTHOUSE & SALTMER LTD.—HULL



**CHERRY'S
SLUMBER-TEA**
A profitable, easy selling all-the-year-round line with an ever increasing demand. A counter display will readily pay you. Particulars, etc., from CARTER BROS., SHIPLEY, Yorks.

CACHETS "FINOT"
(White or Coloured)
With inscriptions in any desired tint;
also Plain or Embossed.
"A distinction all their own."—C. & D.
"Perfection of Cachets."—Lancet.
These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER SON & CO. LTD., 80 Gloucester Road, SOUTH KENSINGTON
In 17 Sizes to fit the various types of Cachet Machines.



The famous

D C L

brand Yeast for medicinal use

YEAST TABLETS

60 Tabs 1s. 6d. 120 Tabs 2s. 6d.

This preparation will improve the condition of the Blood

*Should retailers experience any difficulty in getting supplies through usual channels write to
The DISTILLERS COMPANY Ltd., EDINBURGH*

RETAILERS' DISCOUNT 33½%
WHOLESALE 16½%
ALL ORDERS CARRIAGE PAID

B.I.F.

BRITISH INDUSTRIES FAIR OLYMPIA 17th to 28th February, 1936

The Editorial synopsis, which gives a concise preliminary review of the principal trade exhibits, will appear in THE CHEMIST & DRUGGIST of February 15, 1936.

As before, reprints will be available as a guide to visitors interested in the sections devoted to pharmacy, the chemical industry, perfumery and druggist sundries.

AN ADVERTISEMENT SUPPLEMENT IN COLOUR

will be inserted in the same issue. In that Supplement, firms exhibiting as well as manufacturers and first-hand suppliers generally will have the opportunity of focussing the attention of buyers at Home and Abroad on their particular products.

Furthermore, an attractive announcement in that Special Supplement will not only obviate an original preparation being overlooked, but it will stimulate curiosity in the general display.



A FEW ADVERTISEMENT PAGES STILL OPEN

All visitors—Home or Foreign—are assured of a hearty welcome and all available information and assistance at

STAND No. A 233

where "C. and D." representatives will be in constant attendance

THE CHEMIST & DRUGGIST

28 ESSEX STREET, STRAND, LONDON, W.C.2

TELEPHONE: CENTRAL 6565 (10 lines).

TELEGRAMS: "CHEMICUS, ESTRAND, LONDON."

4 Cannon Street, MANCHESTER, 3

19 Waterloo Street, GLASGOW.
MELBOURNE AND SYDNEY, AUSTRALIA.

S4 Foster's Buildings, High Street, SHEFFIELD

32 Plantage-Franchelaan, AMSTERDAM
ISS Avenue de Wagram, PARIS
AUCKLAND, NEW ZEALAND

"A deep impression over the British Isles" is being made by

Simpkin's SORE THROAT TABLETS

These palatable Prophylactic Tablets contain: Menthol, Phenol, Iodine, Methyl Salicylate in a glucose with dextrose base intriguingly flavoured, and each piece individually wrapped.

Retail Price, 3d. per oz. 2 ozs. 5½d.

An attractive, efficacious and profitable line, that sells quickly wherever shown.

Simpkin's of SHEFFIELD

The pioneers of Chemists' Confections, are True Chemists' Friends.

Distribution is restricted entirely to the qualified Chemist.

A. L. SIMPKIN & CO. LTD.

Barley Sugar Works, Sheffield, 6

BESORBON

The
PROFITABLE
COLD-CURE

is being advertised now in *The Times*, *Morning Post*, *Punch*. Tie-up by using the Display Container.

KEMSALES LTD., 20, EASTCHEAP, E.C.3

English
Filter
POSTLIP
Papers

SQUARES
CIRCLES
FOLDED
ROLLS

WHITE
GREY
PLAIN
ANTIQUE
EMBOSSED
CRINKLED

SAMPLES
FREE

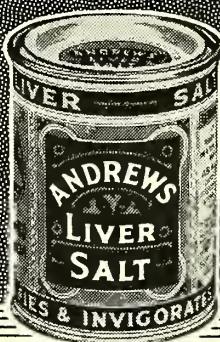
Postlip Filterings are stocked by all the leading Wholesale Laboratory Dealers.

Evans, Adlard & Co. Ltd.

Postlip Mills, Winchcombe, Cheltenham.



*The Saline
with the
largest
Sale —*



9° & 14

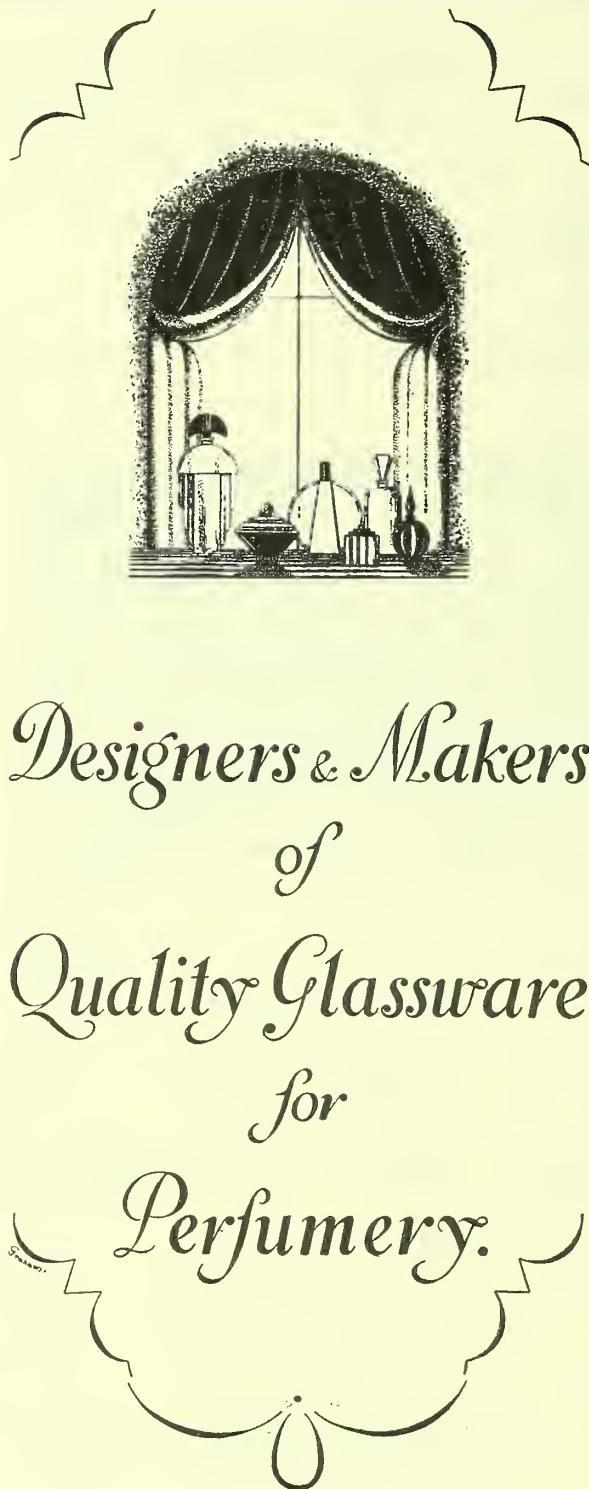
**TRY A
MASON'S
WINDOW
DISPLAY
AT OUR EXPENSE**

To those customers who allow us the use of their windows we offer 5/- for their opening order for 6 dozen MASON'S EXTRACT OF HERBS (or 10/- for 12 dozen).

The window display is most attractive and perfectly simple and can be fixed up in a couple of minutes

GOOD! IT'S MASON'S

**Apply NEWBALL & MASON LTD.,
NOTTINGHAM**



ESTABLISHED 1828

**WOOD BROS. GLASS CO.
LIMITED**

BARNESLEY

ENGLAND

5 WAYS TO A WOMAN'S PURSE

The **TOWN TALK 5**

The famous "Town Talk" Liquid Silver Polish, Silver Plate Cloth, Liquid Pewter Polish, Chromium Plate Cloth, and Cut Glass Cloth, afford you five ways to a woman's purse. They are consistently advertised in women's newspapers and journals, and their qualities make them quick-selling, repeat-order lines.

Push the "Town Talk" 5, they yield a good profit and bring customers into your shop.

ORDER DIRECT OR FROM —

MANCHESTER: James Woolley Sons & Co., Ltd.	LONDON: Brooks & Warburton, Ltd. May, Roberts & Co., Ltd.
LEEDS: Goodall, Backhouse & Co.	LIVERPOOL: Ayrton, Saunders & Co. Ltd.
EICELSTER: E. H. Butler & Son	

THE TOWN TALK POLISH CO. MANCHESTER

NOW BRITISH MADE

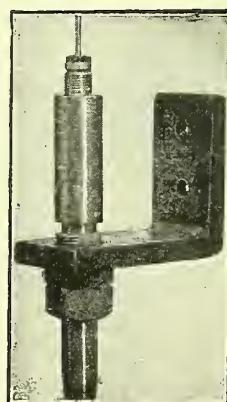
WAGNER'S DRY BOTTLE CAPS
BEST IN QUALITY & APPEARANCE

Self-Fixing

R. V. WAGNER

33 BROOKE ST., LONDON, E.C.1 Tel. Holborn 5090

A black and white illustration showing three different types of bottle caps being applied to various bottles. One cap is being twisted onto a glass bottle, another is being applied to a metal can, and a third is being applied to a plastic bottle. The caps have a distinctive ribbed or serrated edge.

**SPRINKLER BOTTLES****Automatic Rinsing**

Can be connected to the town's water supply by metal or india rubber hose pipe.

By merely passing the mouth of the bottle over the jet and pressing the bottle downwards water is automatically sprayed into the bottle. The water completely drains away from the bottle as it is withdrawn.

Further particulars may be obtained from the makers:—

**The THOMAS HILL
Engineering Co. (HULL), Ltd.
9 PARK LANE, STEPNEY, HULL**

3 VITAL NEWS ITEMS CONCERNING SHERLEY'S DOG & CAT FOODS & MEDICINES

NEW

SHERLEY'S

Tonic and Condition Powders

1/3 Packet of 24 Powders Replaced by New

1! PACKET OF 21 POWDERS

Such an offer of better value to the Public is certain to create an increased demand for a line which is already highly popular. The new size shows an excellent profit at 8/- per dozen, while orders of 1 dozen or more, or any quantity included in a £2 parcel, are charged at 7/- per dozen.

The New 1/- price will not be incorporated in our Advertising until the new pack is in full circulation. Old stocks of 1/3 size, however, will be replaced by the new 1/- pack, in proportion, if returned direct to us.

SHERLEY'S
CAT CONDITION POWDERS
Specially Prepared for
CATS

Hitherto the small strength Sherley's Tonic and Condition Powders have been recommended for Cats. Now, however, a special new pack for Cats only has been produced with the name "Sherley's Cat Condition Powders" and is certain to be popular among Cat lovers.

There are two sizes—6d. containing 9 Powders and 1/- containing 21 Powders—packed on Display Cards of two dozen 6d. or one dozen 1/-. Trade Prices are the same as for the Tonic and Condition Powders for dogs.

DATING
 OF
LACTOL
TINS

For some time all tins of "LACTOL" issued have been dated—1/8 and 6/- sizes on the bottom and the 25/- Tin on the label. Breeders are appreciating this step to ensure absolute freshness of all "LACTOL" purchases. Undated Tins in stock should now be withdrawn and returned to us for exchange.

"LACTOL" is the largest selling Puppy-rearing Food.

It is being pushed by a bold and forceful advertising campaign, backed by our sales-compelling "Old Lactolian" scheme.

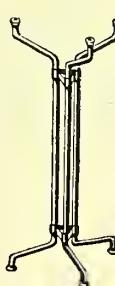
A. F. SHERLEY & CO., LTD., 18 Marshalsea Road, London, S.E.1

**BATTLE'S
VERMIN
KILLER**

Of all Patent Medicine Houses at 3/-, 5/- and 9/- per dozen.
In packets at 5d., 9d. and 1/3 each.
(P.A.T.A.)

The sure destructive agent which may be confidently recommended by Chemists for quick clearance of rats and mice.
(Users' testimonials on request.)

Prepared only by
J. C. M. BATTLE, Ph.C., LINCOLN

**EMBOSSSED
SEAL
LABELS.**

**SOMETHING NEW
in WINDOW FITTINGS
ALUMINIUM ALLOY
PEDESTALS**

Very Strong. Absolutely Stainless.
Cheaper than Chromium-plated Steel.
Rubber Caps cannot fall off.
No. 2972

12"	...	4/3 each	...	48/- doz.
15"	...	4/6 "	...	51/- "
18"	...	5/3 "	...	60/- "
21"	...	6/ "	...	68/- "
24"	...	7/3 "	...	83/- "

CLEMENTS, NEWLING & Co., Ltd.
95 & 96 WOOD STREET, LONDON, E.C.2

**JAMES TOWNSEND
AND SONS,
EXETER.**

LONDON OFFICE: 29, FARRINGDON STREET, E.C.4.

32,000,000 WINDOWS TO YOUR SHOP



Large space 'ASPRO' advertisements are carried several times monthly by over 300 newspapers, with a total circulation of more than 32,000,000. They act as 32,000,000 effective windows for retailers who connect up by showing 'ASPRO' displays. To get the benefit of this stupendous advertising, as if you paid for it yourself, show 'ASPRO' display material prominently in your windows. People will come into your shop who would not otherwise have come. You will gain by increasing your sales of other lines in addition to 'ASPRO' sales. New designs for 'ASPRO' Window Displays are produced at frequent intervals. A typical display is illustrated herewith. Remember 'ASPRO' sales are continuous.

**SEND NOW FOR
NEW 'ASPRO'
DISPLAY MATERIAL**



'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority. No proprietary right is claimed in the method of manufacture or the formula.

Made in England by **ASPRO LTD.**
Slough, Bucks. Phone: SLOUGH 608

ASPRO
REG. TRADE MARK



The CHEMIST AND DRUGGIST

SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

FEBRUARY 8,
1936.

ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for **DISPOSAL, PREMISES TO LET and FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE and AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

SITUATIONS OPEN—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

SITUATIONS WANTED—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

LEGAL NOTICES, TENDERS, AUCTIONS, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column). (Box No., 1/- extra.)

MISCELLANEOUS (Wholesalers') Section for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)

EXCHANGE COLUMN (for Retailers, etc.)—Twopence per word, minimum 2/-. (Box No., 1/- extra.)

THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

CLOSING FOR PRESS

must reach us
not later than

FIRST POST THURSDAY MORNING

All advertisements intended for insertion in this Supplement

ORRIDGE & CO.

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

1.—**SLOANE SQUARE (NEAR).**—Old-established Middle-class Business with N.H.I. approximately £250 per annum; returns last year £1,648 with gross profits £58; rent and rates £72 per annum; long lease; opportunity for Optician; stock and fixtures worth about £900; price by negotiation.

2.—**NORTH LONDON.**—Well-established Medium-class Business; returns last year under management, £1,340; accountants' figures; 6-roomed house with bathroom; held on lease; price £850 or valuation terms entertained; scope for increase under personal supervision.

3.—**S.W. LONDON.**—High-class Retail and Dispensing Business occupying good position in busy main road; returns last year exceeded £3,000, this year shows a further increase; rent £250; long lease; stock worth approximately £750; price required for goodwill £500.

4.—**LONDON, E.**—Middle- and Working-class Business; established many years; returns between £1,350 and £1,400 per annum; low rent; long lease; attractive shop, well fitted and stocked; price about £750.

5.—**SURREY.**—Middle-class Retail and Dispensing Business producing net profit of approximately £400 per annum; good living accommodation with garden and room for garage; reasonable rent; long lease; price asked £950 all at, or valuation terms entertained.

6.—**LONDON, S.E.**—General Retail Business with small Panel in good-class residential district close to station; returns last year £1,539; Chartered Accountants' figures; stock and fixtures worth £700; good living accommodation; rent £75; held on renewable lease; valuation terms entertained; Vendor retiring.

7.—**MIDDLESEX (GOOD-CLASS TOWN).**—General Retail and Dispensing Business with Fancy Goods; returns about £1,900 per annum; double-fronted shop; excellent house; held on lease; price about £1,250 all at, or valuation terms entertained.

8.—**WEST END.**—Old-established Light Retail Business; over 3,000 new prescriptions were dispensed last year; returns about £2,000 per annum, at good prices; stock and fixtures worth about £800; price for immediate sale £600.

9.—**BECKENHAM (NEAR).**—Neglected Business at present conducted on old-fashioned lines; imposing double-fronted, corner, main-road shop, well fitted; stock and fixtures estimated to be worth £700; living accommodation; new lease; low rent; Vendor wishes to retire and will accept a reasonable offer.

10.—**SOUTH LONDON.**—Main-Road Middle-class Business with Optical connection; well established; returns approximately £1,900, of which from £300-£400 is from Optics; gross profit £720; stock and

fixtures worth between £800 and £900; price required to include stock, fixtures, goodwill and Vendor's interest in the property £1,250; further details on application.

11.—**MIDLANDS.**—Old-established Middle-class Business with Wine Licence; returns last year exceeded £2,000; Vendor suffers from ill-health; large premises, all used for business purposes at present; property may be purchased or lease will be granted; all-in price for business and premises £2,700, or business can be purchased separately; early sale desired.

12.—**MANCHESTER (NEAR).**—Good-class Country Business; very old-established and in present hands many years; returns (1935) exceeded £1,550; gross profit ½; rent £70 per annum, which includes living accommodation, or property could be purchased for £800; price required for business £350.

13.—**ESSEX (MARKET TOWN).**—Middle and Working-class Business producing net profit of over £400 per annum; private house available; price of business £750 all at.

14.—**LIVERPOOL.**—Middle-class Business with excellent passing trade; returns (1935) £1,530; gross profit £535; living accommodation, with garage; the property is for sale at £950 and the price required for the business is £975 or near offer; ill health cause of sale.

15.—**NORTH MIDLANDS.**—Old-established Chemist Business with Wine and Spirit Licence; returns last year exceeded £3,200; excellent position; good house; property may be purchased or a lease will be granted; stock and fixtures worth about £1,250; price by negotiation.

16.—**HAMPSHIRE.**—Newly-established Drug Store and Herbalist; present rate of turnover about £8 per week; scope for increase under qualified management; busy main road shop; living accommodation; rent £60; 21 years lease; terms, value of stock and fixtures only about £250; genuine reason for sale.

17.—**DORSET.**—Old-established Business; returns (1935) £1,858; main road position; spacious shop; stock and fixtures worth about £950; offers invited in respect of goodwill plus stock and fixtures at valuation.

18.—**BEDFORDSHIRE.**—Good-class Retail Business; returns under management exceed £1,500 per annum; scope for increase under personal supervision; rent £78; rates £15; stock and fixtures worth about £700; price asked for goodwill £400.

19.—**PLYMOUTH.**—Good Middle-class Dispensing Business in residential district; returns approach £1,000 per annum with net profit 30%; rent and rates £55 weekly; lease if desired; price for early sale £500.

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants.

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Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) LEICESTERSHIRE.—Attractive main road pharmacy, with up-to-date self-contained house, including all conveniences; turnover approximately £1,350 per annum; good scope; reasonable rental; long lease; price £800 all-at.

(C2) NORTH SCOTLAND.—Old-established dispensing business for disposal owing to ill-health and contemplated retirement; property also available, or five-year lease would be granted, with option to purchase; present returns approximately £1,100 per annum; net profit about £400; excellent scope for further considerable development; good living accommodation; very reasonable purchase price.

(C3) LINCS (MARKET TOWN).—Mixed retail business with some wholesale trade, for disposal owing to retirement; turnover at present approximately £2,000 per annum; rent £75, including living accommodation; premises situated in main street; scope for considerable further development; established nearly 150 years; price £800 or near offer.

(C4) EAST SHEEN (RETIREMENT VACANCY).—High-class dispensing business with living accommodation, occupying prominent position in main shopping thoroughfare; in present hands 33 years; returns now average approximately £1,500 per annum, but can be increased materially under more energetic proprietorship, the present owner having been unable to devote full attention to the business for some time past, owing to illness; a new lease will be granted at a commencing rental of £125 per annum; very reasonable price accepted.

(C5) LIVERPOOL.—Established main-road business with six-roomed house; turnover for last financial year, £1,900; net profit £450; rent £77; long lease; price £1,000 all-at.

(C6) KENT.—Country business entirely unopposed, with modern house, orchard-garden, space for tennis court, etc.; increasing returns now at the rate of approximately £30 weekly; turnover for financial year ended December, 1935, £1,431; net profit £401; audited accounts; freehold can be acquired or taken on 21-year lease at £100 per annum; reasonable purchase price.

(C7) BALHAM.—Unopposed middle-class business, with sub-post office, can be acquired at low figure for quick sale; now in hands of Trustee; less than three years ago the returns averaged approximately £2,000 per annum; now doing between £20 and £25 weekly, but these figures are capable of early substantial increase; further details upon application.

(C8) ACTON.—Lock-up pharmacy situated in busy shopping street; genuine scope for early substantial increase under personal proprietor-

ship; present turnover £200/£25 weekly; rent £80 per annum, including rates; price for quick sale £550, including stock, £400.

(C9) DARWEN.—Old-established pharmacy with living accommodation, at present used for storage purposes, situated in main shopping thoroughfare; turnover for 1935, £1,150, but scope exists for substantial increase over these figures; rent £60; lease 19 years' unexpired; value of stock and fixtures only will purchase; further details upon application.

(C10) LONDON, S.W.1.—Old-established family business offering good scope for further development over the present returns, which for the last financial year amounted to £1,516; rent £95; lock-up shop; owner will accept sacrifice figure of £750, including stock and fixtures £600, as he has purchased another business, and wishes to sell as quickly as possible.

(C11) TORQUAY.—Modern pharmacy with up-to-date flat, including small garden; present returns approximately £1,000 per annum; net profit £300; rent £85; long lease; price about £600, including stock £300.

(C12) SOUTH DEVON (POPULAR SEASIDE RESORT).—Drug store; returns at present average £1,100 per annum, but these figures represent no criterion of possibilities, particularly under qualified ownership; audited accounts; property can be purchased or long lease will be granted at moderate rental; extensive living accommodation, at present producing an income of approximately £2 per week; price asked, £650.

(C13) LONDON, E.1.—Good profit-earning lock-up pharmacy, with large N.H.I.; turnover for 1934 financial year, £1,673; net profit, £437; steadily increasing; reasonable rental; price all-at £650.

(C14) SOUTH-WEST (CATHEDRAL CITY).—Branch pharmacy with excellent scope for increase under personal proprietorship; now doing approximately £25 per week; situated in main street; rent £130 per annum; price all-at £750.

(C15) RUISLIP (MIDDLESEX).—Exceptional opportunity to acquire attractive well-fitted pharmacy with up-to-date flat, situated in good-class residential area; during the past few months the returns have only averaged between £20 and £30 per week, but with personal interest and attention it is considered that they should easily show a rapid improvement on these figures; business at present under management; three years ago when under the ownership of a private chemist, the turnover exceeded £2,500 per annum; value of stock and fixtures will purchase (no goodwill asked); part payment also considered.

(C16) LONDON, W.—Drug store, old established, with particularly good scope for substantial development; turnover upwards of £1,200 per annum; rent £100, including living accommodation; price £650 all-at, of which stock is estimated at £300, and fixtures £250.

etc., promptly executed at economical rates.

Valuations for transfer, probate, income tax,

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CHEMISTS' VALUERS AND TRANSFER AGENTS,
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(One minute from St. Pancras and King's Cross Stations.)

1.—SUSSEX COAST.—Good-class Dispensing and Family Business; scope for Toilet and Photographic; turnover £1,900, gross profits over £700; attractive lock-up shop, in improving position, well fitted and stocked; price £1,450; personally recommended.

2.—WESTCLIFF-ON-SEA.—Sound, progressive Cash Business; returns £1,365, net profit £335, audited books; modern corner shop, flat over; rent £100; price £800 or first reasonable offer.

3.—GLOUCS.—Sound Light Cash Retail, returning over £900, increasing; modern fitted pharmacy, with house attached; rent £40; long lease; stock worth £300; price £450, part can remain.

4.—KENT (14 miles out).—Unopposed Village Business; pleasantly situated; returns £1,100, net profit £300; stock and fixtures worth approximately £600; price £750 or offer.

5.—MIDDLESEX.—Branch Business, in growing district; no opposition; returns £15 to £20 weekly; opening for Optics; net rent £25, on lease; genuine reasons for selling; price £500.

6.—SURREY (Suburb).—Good-class Family Retail, in growing district; return £50 weekly under manager, scope for increase; modern well-fitted shop (lock-up); good stock; price £875 or near offer; recommended.

7.—HORNSEY.—Old-established Business, with large Panel; returns about £1,500; neglected; plenty of scope; good position; stock worth £600; owner retiring; offers invited; personally recommended.

8.—LONDON, S.W.—Well-established Light Suburban Retail; returns approach £1,000, good profits; books kept; nice house, low rent; stock worth £350/£400; price £625, or near offer; recommended.

9.—STROUD GREEN (near).—Profitable Light Retail; returning £20 weekly under indifferent management; plenty of scope; prominent corner position; price £300; stock at valuation.

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SPECIAL offer Blackpool Business. Vendors hands 13 years. Turnover £1,700. Premises on Lease. Profits good and can be increased. Quick Sale Stock and Fixtures, £600.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

HARROGATE, YORKSHIRE.—Established Good-class Retail Business; rapidly growing district; modern shop and house; turnover £1,000, auditors' figures, increasing steadily; good Dispensing connection; suit young Qualified man; goodwill and equipment £250; stock at valuation; property on lease or may be purchased. Henry Stead & Partners, Hope Chambers, Vicar Lane, Leeds.

HOVE.—Dispensing Chemists; best central position in Western Road, under personal management; capable of considerable extension; fine double-fronted shop, exceptionally well fitted; substantial trade and profits; audited by chartered accountants; price, including mahogany fittings and £400 stock, is £750. Albert Prior & Grainger, Valuers, Ship Street, Brighton.

LONDON, N.—For immediate disposal, recently established Chemist's Business; modern double-fronted shop, beautifully fitted, new shop front; excellent living accommodation and good, dry cellar; lease 19 years to run at £250 per annum; returns approx. £30 p.w.; stock approx. £400; vendor giving up retail pharmacy. For further particulars apply 273/877, Office of this Paper.

NORTH LONDON (main road).—Established Pharmacy; good living accommodation, separate entrance; garage; long lease; Kodak Agency; every investigation invited; good reason for selling; vendor will accept reasonable sum for goodwill, plus stock and fixtures at valuation. Write 143/8, Office of this Paper.

NOTTINGHAM.—£250 or nearest; must sell through illness; Drug Stores and Photographic; Sels Agency; established 25 years; splendid opportunity for Qualified Chemist; nine doctors immediate vicinity; tremendous scope; excellent corner position and living accommodation; main thoroughfare; low rent. Apply "Rhei," Greenland's, Edwalton, Notts.

SOUTHEND-ON-SEA.—Chemist; double-fronted shop; good living accommodation; low rent; well stocked; trade up to £20; price £350 all at. Station Estate Office, Prittlewell.

SURREY, in middle of growing residential suburb, good Dispensing, Prescribing and Photographic Business; returns last year £1,900, increasing to £2,200 during currency of present year, with good profits; flat above consists of 3 rooms, bathroom, lavatory, with private entrance; well stocked and fitted; price £1,350 all at, or near offer; owner retiring owing to ill-health; rent £104 per annum; no triflers. 143/36, Office of this Paper.

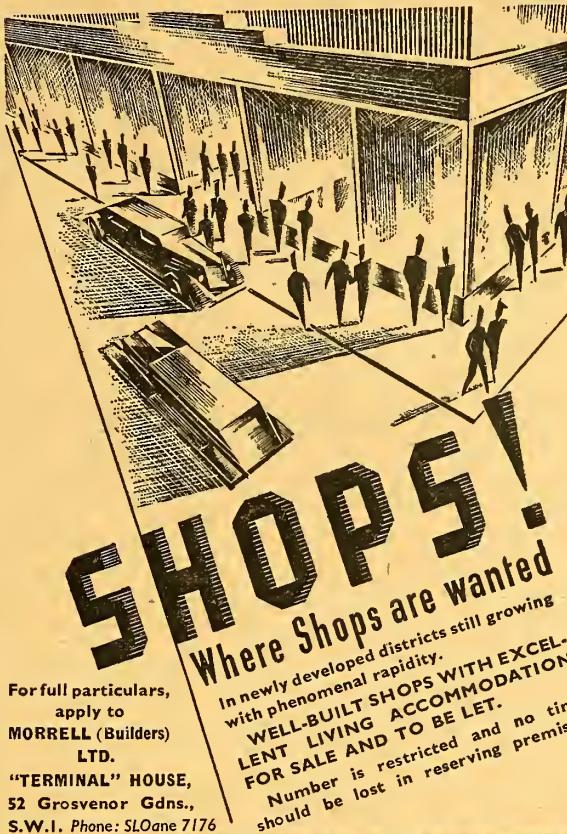
DRUG STORES.—Busy main road, London suburb; low rent, with good living accommodation; recently refitted; large Photo and Surgical trade; scope for N.H.I.; sound reason for disposal; cheap for quick sale. 143/32, Office of this Paper.

GOOD opportunity for person with small capital; established Business near London (S.W.), still increasing; good N.H.I.; rent and rates about £80, with living accommodation: long lease; main road; no near opposition; price £600, including stock, fixtures and fittings, etc. Apply T. S. Macadam, Accountant, Dome Buildings, Richmond, Surrey.

UNUSUAL opportunity for acquiring the assets (comprising plant, stock and book debts) of a company manufacturing a product in great demand, including branded remedies distributed nationally; most essential to Chemists and Food Manufacturers. Write 143/46, Office of this Paper.

WONDERFUL OPPORTUNITY.—Owing to unforeseen circumstances, Advertiser offers for sale recently opened branch showing definite prospects; situated on new parade in best-class suburb of large West Riding town; monopoly Chemist; well fitted and stocked; lock-up; only needs seeing. 142/4, Office of this Paper.

PREMISES.



POMFORD.—Parade of Eight Shops, with lovely living accommodation; suitable for Chemist; Post Office could be obtained; half mile to nearest shops; thickly populated; to be Let or Sold. Edenborough & Co., 34 Woodberry Avenue, Winchmore Hill, N.21.

LOOKING FOR BETTER PREMISES?—Having moved to larger premises, Messrs. Willsons desire to assign 33-37 Moreland Street, City Road, E.C.1, to first-class firm without premium; up to date, ideal for manufacturing, and good office and showroom accommodation; 3 floors; lower ground (top-lighted) and floor partitioned for offices; ground and first naturally lit, large, modern windows; automatic passenger and goods lift, interloading dock if necessary; central heating; complete burglar alarm; lease has 17 years to run, with option to determine at 7th and 14th years; rental £800 to September, 1938; £825 to September 29th, 1945; £850 to September 25th, 1952. Order to view, 'phone Mr. George, Bishopsgate 4383.

PREMISES TO LET.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

HILLINGDON.—On the main London Road; remaining shop available in a block of five; wonderful opening for a Chemist; established district, still developing; modern front already installed; good living accommodation; low commencing rental of £110 p.a. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, W.1. Telephone: Mayfair 7666.

PECKHAM.—Fine opening for Cash Chemist and Druggist; new shop premises shortly to be erected in one of the best positions in this famous shopping centre will be available on lease at £350 p.a. Apply Atkinson & Marler, 21 Maddox Street, W.1. Telephone: Mayfair 2874.

SOUTHEND-ON-SEA.—Parade of eleven shops; lovely living accommodation; low rent; all Staybrite steel fronts; one suitable for Chemist. Station Estate Office, Prittlewell.

TOTTENHAM. N.—Parade of 8 Shops, just completed; 2 already let to a grocer and greengrocer respectively; good opening for a Chemist; rent £150 p.a. (including self-contained flat); first tenants producing satisfactory references accepted. Apply Basil and Howard Samuel, 281 Regent Street, W.1. Regent 1661-3.

SOUTHEND-ON-SEA.—Chemist required next to doctors; large double-fronted shop; living accommodation; low rent. Station Estate Office, Frittlewell.

HIGH-CLASS Shops to Let in new parade in best part of High Road, Streatham, from £140-£500 per annum. Apply Letting Manager, 17 Streatham High Road, 'phone Streatham 9627, or Bell Investment Trust, Ltd., 115 Park Street, Mayfair, W.1. 'Phone Mayfair 4201.

LOCK-UP SHOPS TO LET.—230 North Circular Road, Stonebridge; growing district; from £1 2s. 6d., £1 7s. 6d. and £1 10s. per week; suitable for Chemist, Grocery or Greengrocery, or Hairdressers. Apply Owner, 151 Neasden Lane, Neasden.

OPPORTUNITY occurs for a Chemist at Tottenham; modern shop with flat; separate entrance; £150 per annum; no premium. 273/875, Office of this Paper.

£115 P.A.—First-class opportunity for Chemist; important new shopping centre; large, well-built Lock-up Shops to Let in rapidly developing S.E. London Suburb; commodious residential upper parts if required; prominent position at the junction of two main roads, where a considerable trade is immediately available, with practically no opposition. Davis Estates, Ltd., 346/50 High Road, Kilburn, N.W.6.

APARTMENTS.

THE HAMPDEN RESIDENTIAL CLUB FOR GENTLEMEN. Hampden Street, N.W.1. Close to King's Cross and Euston. 300 Bedrooms. 12s. 6d. to 25s. per week, including bath, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary. Euston 2244/5.

AGENCIES.

Well established firm of Commission Merchants with experienced and qualified travelling staff and good connections amongst leading Drugists and Chemists throughout Egypt, also Government Contractors, seek Agency of well known Manufacturing Chemists for Egypt. Highest Bank and Trade references. Write 273/871, Office of this Paper

AMERICAN Chemist-Executive, vast Sales experience, large Institutions, Wholesalers, Manufacturing Consumers, United States and nearby countries, would Represent reliable, established firm on mutually desirable basis without investment; highest integrity; headquarters New York or Philadelphia; please furnish full confidential details. Write 142/6, Office of this Paper.

INDIA.—A well-connected firm of Wholesale and Import Merchants in Bombay desire to get in touch with British Manufacturers of Fine Chemicals, Drugs, Galenicals and Chemists' Sundries. The firm have close connections with buyers all over India and would like to take up the Representation of good-class firms on a commission basis. Address in the first instance 273/874, Office of this Paper.

COMMISSION Agents required to sell a Nationally-Advertised Product; good terms will be given to men with established connections in the Pharmaceutical Trade (both Wholesale and Retail). Write, giving particulars of area covered and products already being sold to 136/13, Office of this Paper. All replies will be treated in strict confidence.

POWDER PUFF Manufacturer of highly competitive lines requires Agent with established connection to take up as additional line on good commission basis. Write P.C.B. 192/13, Office of this Paper.

WANTED

A PUSHING and Energetic Representative for first-class Swiss Pharmaceutical Preparations for U.K. Apply to Z.E., 152 Rudolf Mosse A.G., Zurich.

TENDERS.

COUNTY COUNCIL OF MIDDLESEX.

PUBLIC ASSISTANCE DEPARTMENT.

Tenders for:—Dressings, Medical and Surgical Appliances (Six Months). Drugs (Six Months). X-Ray, Light, Pathological and Radium Requisites, etc. (Six Months).

THE County Council of Middlesex invite tenders for the supply of the above goods or materials for the periods stated from the 1st April, 1936, to their several Public Assistance Hospitals, Institutions, Children's Homes, Offices, etc.

Forms of tender (upon which only tenders will be received) and conditions of contract may be obtained on application to the Director of Public Assistance, 1 Great George Street, Westminster, S.W.1, accompanied by stamped, addressed foolscap envelope.

Sealed tenders, marked "Tender for ___," must be delivered at or before 11 a.m. on Monday, the 2nd March, 1936, addressed to "The Clerk of the Middlesex County Council, Guildhall, Westminster, S.W.1." The Council do not bind themselves to accept the lowest or any tender, and reserve the right to accept any tender or part only.

Estimated quantities required are stated in the form of tender, and tenderers may tender to supply all or any one or more of the Establishments concerned. PA/H/159.

Guildhall, Westminster. C. W. RADCLIFFE,
February, 1936. Clerk of the County Council.

WILTS COUNTY COUNCIL.

PUBLIC ASSISTANCE COMMITTEE.

TENDERS.

THE Public Assistance Committee of the Wilts County Council are prepared to receive tenders for supplying their Public Assistance Institutions, the Marlborough Children's Hospital, Children's Homes, and the M.D. Institutions at Pewsey, Purton and Wilton with DRUGS AND SURGICAL DRESSINGS for twelve months commencing on the 1st April, 1936.

Forms upon which tenders must be made may be obtained on application to the Public Assistance Officer, County Offices, Trowbridge, and must be returned to the under-signed by the 22nd February, 1936.

The Committee do not bind themselves to accept the lowest or any tender.

County Offices, W. L. BOWN,
Trowbridge, Wilts. Clerk of the County Council.
4th February, 1936.

PARTNERSHIP.

ALONDON firm requires a capable Lady or Gentleman with good knowledge of the Drug and Chemical trade to take an active interest in business and prepared to invest capital on terms; full details and particulars in confidence. 143/38, Office of this Paper.

FINANCIAL.

MANUFACTURING Chemists (Lancs) with spacious premises and modern plant (good range of established lines) require extra capital for expansion; Qualified men invited; would consider merger with Packing House. 273/876, Office of this Paper.

SALE BY AUCTION.

SALE ROOMS: 62A ALDERSGATE STREET,
LONDON, E.C.1.

100 DOZEN MURY'S NARCISSÉ BLEU Perfume, Powders, Lipsticks, Cream, Bath Salts, etc., and an assorted Chemist's Stock.

F_{RANK} G. B_OWEN, L_TD.,

will sell by auction on Thursday, February 13, 1936,
at 2 o'clock. Catalogues of the Auctioneers.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

DUNSTABLE (BEDS).—Junior or Improver wanted for Good-class Country Pharmacy. Please give all particulars as to age, experience, references and salary required in first letter to F. E. Herington, Chemist, Dunstable, Beds. (Applications unanswered within three days respectfully declined.)

EXETER.—Wanted, Junior Assistant for High-class Pharmacy; good experience; apply in own handwriting; enclose photo if possible, to be returned. Mr. John Harris, 2 Queen Street, Exeter.

LONDON, S.W.16.—Required February 24th, Unqualified Assistant (gentleman); young; permanency; accustomed to high-class Pharmacy; accurate Dispenser; educated; of smart appearance. Apply, stating full particulars, to A. E. and G. L. Weston, Chemists and Opticians, 284 High Road, Streatham.

MANCHESTER.—Required for March 1, Qualified Branch Manager, with Optical qualification, for N.H.I. (age 25-30); must be fully experienced in all its branches; salary £3 10s.; free rent, good house accommodation, with commission on optical testing cases; only reliable and capable men need apply. Salol, 142/9, Office of this Paper.

MANCHESTER.—Young Lady Assistant required for Counter work and Dispensing; state age, salary and references. Beal, 446 Rochdale Road, Manchester.

SOUTH CROYDON.—Junior Assistant (20-22); outdoors; state salary required; photo; references. S. A. Noble, M.P.S., Chemist, Selston Road.

A YOUNG Lady Assistant required immediately for South-West London suburb; Counter experience essential and slight knowledge of Dispensing. Apply W. E. Mason, M.P.S., 89 Acme Lane, Brixton, S.W.2.

APPICATIONS are invited from Qualified Chemists with Optical qualifications for the position of Manager to open new department; membership 23,500. Applications, stating age, experience and wages required, giving two references to Failsworth Industrial Society, Ltd., 9 Church Street, Newton Heath, by not later than Thursday, February 13th, endorsed "Chemist."

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS OR VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

JUNIOR (age about 22), with some knowledge of Dispensing, required for business in South-West suburb; state full particulars and salary required. 144/5, Office of this Paper.

LADY, Apoth. Hall or Unqualified, pleasing personality; Salesmanship and Display; Herbal, Diabetic, Foods, etc.; Surrey; management suitable person; permanent; comfortable position for conscientious, reliable worker; age, when free, salary, approx. 145/3, Office of this Paper.

MANAGER, Qualified, for small branch, working-class and N.H.I.; easy hours; experience of Agricultural and Dog trade an advantage; state age, experience, references, salary required and when free, photo if possible. Milo Turner, Chemist, Tamworth, Staffs.

M.P.S. (25 to 28), to open new branch, West Riding; moderate salary, with increases on results; preference given to keen business man, proof of this point to be given. Full details, including photograph, height, to 142/8, Office of this Paper.

PART-TIME Male Assistant at once; Dispensing and Counter; Tuesday, Wednesday, Thursday, 5.30 p.m. to 8.30 p.m.; Saturday 5.30 p.m. to 9.0 p.m.; alternate Sundays, 6 p.m. to 8 p.m.; state age and salary required. Jones & Co., Chemists, 161 New Cross Road, London, S.E.14.

QUALIFIED Assistant, either sex, beginning of March; permanency; all-round knowledge essential; Counter, Window-dressing and experienced Dispenser (not over 35); state age, salary, experience; applications not answered in 7 days respectfully declined. Mr. Windle, 8 Station Road, Swanage.

QUALIFIED Lady Pharmacist wanted for S.E. London; young, pleasant personality, good Counter manner; please state salary and full particulars in first letter; applications unanswered respectfully declined. 143/55, Office of this Paper.

QUALIFIED Manager (branch) for February 24; experienced in N.H.I. Dispensing, Window-dressing, etc.; one not afraid of work. Apply, with full particulars as to age, experience and salary required, to Bewells', Ltd., 19-21 Pitfield Street, N.1.

QUALIFIED Manager required for branch in Devon (age 25/30); good Counterman and Dispenser; first-class references required; applications unanswered in 4 days respectfully declined. Please send full particulars to 143/21, Office of this Paper.

REQUIRED for 6 to 8 weeks, an Assistant with Optical qualification (M.P.S. not essential, but would be accepted). Apply, giving full particulars, to C. H. White, Ltd., Market Place, Oldbury, Birmingham.

WANTED, a Qualified Chemist, capable and efficient Salesman, accurate Dispenser, good Window-dresser; smart appearance. Write, stating age, experience, salary required and when able to commence duties, to 143/43, Office of this Paper.

WANTED immediately, Unqualified Assistant (lady or gentleman), for two months; possible permanency; please state salary required, age and references, photo if possible. R. P. Bristol, Ltd., 17 Oxford Street, High Wycombe. Phone 111.

YOUNG Lady Chemist Assistant, recently Qualified, wanted at once for North London Pharmacy; light duties. Write, stating age, experience and salary required, to 143/80, Office of this Paper.

18-20 YEARS.—Improver. Full details and salary to Wavell & Co., 182 King's Road, Chelsea.

WHOLESALE.

FRUIT SQUASHES.—Firm of repute require Representatives on commission calling on Chemists only; please state age, experience and exact territory. 141/5, Office of this Paper.

MANUFACTURING Chemist wanted by Hairdressers' Sundries house in Midlands. Please state full particulars of past experience, qualifications, age and salary expected, by letter only to Langford's (Midlands), Ltd., Sherwood Buildings, Sherwood Street, Nottingham.

REPRESENTATIVE required by Manchester Manufacturing Chemists and Druggists; applicants will be required to have had previous experience in the sale of Bulk and Packed Drugs to Retail Chemists; Qualified man preferred, but consideration will be given to an Unqualified applicant possessing the desired experience. Applications, stating age, qualifications, experience and salary required, to 273/863, Office of this Paper, not later than 15th February, 1936.

REPRESENTATIVE required with good connection to carry as Sideline Proprietary Line. 273/872, Office of this Paper.

REPRESENTATIVE, young and energetic, for part London and South Coast, wanted to call on Chemists; applications invited from men with selling ability and good personality; some Retail, also Travelling, experience essential; write, stating age, experience and remuneration required; fullest details in confidence; no stamps. 273/880, Office of this Paper.

REPRESENTATIVES, calling Hairdressers, Stores and Chemists, required for (1) London, (2) South Coast, (3) Midlands for established Advertised Manicure Line; allowance towards expenses and commission; would consider full time for London. Apply with necessary particulars in confidence to 273/861, Office of this Paper.

REQUIRED immediately, Part-time Representatives, good connection Chemists. Apply, stating area covered and terms, to Coate & Co. (Axminster), Ltd., Manufacturers of High-Class Toilet Brushes, Nimmer Mills, Chard, Somerset.

UNQUALIFIED Assistant wanted for Northern Manufacturing Laboratory; must be thoroughly experienced in Tincture Making on a large scale. State age, experience, etc., to 273/878, Office of this Paper.

VETERINARY.—Representative wanted, already calling on Qualified Veterinary Surgeons, with established connection for sale of Biological Preparations, Sera, Vaccines on remunerative commission basis. Write, giving full details of present lines carried, 142/14, Office of this Paper.

WANTED.—Representative already calling on Chemists and Hairdressers, etc., to sell, on commission basis, well-established Novelty Toilet Soap; part London and Southern Counties. References and particulars to Preston Hall Industries, near Maidstone, Kent.

COLONIAL, INDIAN AND FOREIGN

EASTERN COLONY.—Two Qualified Assistants, one with Optical experience, wanted by British company; single, good appearance and address; 4 years' engagement; passage paid out and home. Write, with full particulars, experience, etc., Box Y. 44, Willings, 133 Moorgate, London, E.C.2.

WANTED, for one or two months only, an Expert Tablet Coater and Polisher; must be able to produce very high-class work; good salary paid to a really capable man. Scott, 348 Rue St. Honore, Paris.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.—LOCUM or permanency; Unqualified; Dispensing, Counter, Windows, Prescribing, Photography, Stock; abstainer. "H.", 16 Brixton Road, S.W.9.

A QUALIFIED Man (29) requires post as Manager or Assistant; London preferred; good appearance, ambitious, hard working; free now. Apply P.C.B. 192/6, Office of this Paper.

A QUALIFIED Manager (44), abstainer, accustomed to good-class business, now disengaged, seeks post London or suburbs; moderate salary. "D.", 407 Caledonian Road, King's Cross, N.1.

ADVERTISER desires situation as Qualified Assistant or Branch Manager immediately; young and energetic; good, all-round experience and excellent references. Pharmacist, 2 Chelston Place, Newport, Mon.

A NY position of trust required by keen and enthusiastic Chemist and Registered Dentist (age 47); wife assisting if desired; would manage with view to succession if preferred. 130/32, Office of this Paper.

AS Managing Assistant; Dispenser, Salesman; active; single; elderly; Unqualified. "Statim," 3 Spring Bank, Wellington Road, Greenfield, near Oldham.

AS Manager, Locum, Hospital Dispenser; Qualified; 20 years' managerial experience; undebatable references; disengaged. "M.P.S.", 34 Cornwall Road, Ruislip Manor, Middlesex.

AS Manager or First Assistant; fully Qualified; active, experienced, reliable. Apply "Chemicus," 76 Lansdowne Road, Notting Hill, W.11.

AS Manager, with living accommodation, view to succession; experienced all departments; at liberty end of February. 140/5, Office of this Paper.

ASSISTANT, gentleman, Unqualified; thoroughly experienced; Dispensing, Counter, Window Display; excellent testimonials. "Junior," 44 Meads Lane, Seven Kings, Essex.

ASSISTANT, Male; 12 years' all-round experience; excellent references; disengaged; London or near; moderate. "Assistant," 128 Sutherland Avenue, W.9. Abercorn 3139.

ASSISTANT, Unqualified, desires position; best all-round West-End experience. "M.", 25 St. Stephen's Road, Bayswater, W.2.

ASSISTANT, Unqualified; experienced Dispensing, Counter; part-time, locum, permanency; London only; disengaged. Write "C. G.", 2A Yalding Road, Bermondsey, S.E.16.

ASSISTANT, Unqualified; thoroughly experienced Dispensing and Counter; locum or permanency; disengaged. F. Ham, 10 Disraeli Road, Putney, S.W.15.

ASSISTANT, Unqualified (21); 3 years' experience Counter, Window-dressing; quick, accurate Dispenser; height 5 ft. 8 in.; disengaged; moderate salary; anywhere. Richards, Cambrian House, Tanygrisiau, Blaenau Ffestiniog, North Wales.

ASSISTANT (21); 6 years' experience Counter, Photography, Window-dressing; accurate Dispenser; abstainer. Haskayne, 25 Westcroft Road, Withington, Manchester.

BIRMINGHAM area or Midlands preferred, not essential, as Manager, Senior Assistant or Dispenser; well recommended; locum work undertaken. Hanley, 180 Lozells Road, Birmingham.

CAPABLE, energetic and conscientious, Unqualified (30), seeks position; thorough knowledge of Retail trade; disengaged. Wcbb, High Street, Cowbridge, Glam.

CAPABLE Qualified Manager, all-round experience, N.H.I.; abstainer; good references; permanency or locum; disengaged. Stewart, 39 Argyle Gardens, Upminster.

CHEMIST, experienced, excellent Prescriber, disengaged, desires Management or Senior; London or provinces; moderate salary. "Drug," 46 Buckley Road, London, N.W.6.

CHEMIST (28), gentlemanly appearance, public school education, desires position in High-class Pharmacy, City, West End; excellent references; London, abroad references; moderate salary if position progressive. Apply 143/23, Office of this Paper.

DISENGAGED; experienced Assistant (45; tall); thorough knowledge all duties; Unregistered; also capable Stock-taker; conscientious and hard worker; permanency or locum. Haigh, 25 Hetley Road, Shepherd's Bush, W.12.

DISPENSING only, 50s., or hours as arranged; well recommended; free any time; Registered. "Chemist," 2 Lancaster Road, Kensington, W.11.

ELDERLY, Unqualified; thoroughly experienced in Stock-keeping, Sales, Windows, Photography; East End preferred. "W.", 5 Cameron Road, Ilford, Essex.

EVENINGS.—Qualified Man offers services in London; experienced in all branches, including Optics. "F.S.M.C.", 252 Barry Road, S.E.22.

EXPERIENCED Manager (30), Qualified, married, desires change; intimate knowledge Retail; 15 years' experience London, seaside, provincial; 7 years as manager; permanency required where scope will be given to produce good results; small investment made if required; moderate salary; free at one month's notice. 142/17, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

IMMEDIATE, Unqualified (24); 8 years' experience; N.W. preferred, not essential. "H.C." 89 Oakwood Crescent, Greenford, Middlesex.

LADY as Assistant Dispenser to Chemist or Doctor; Unqualified; seaside or country preferred; disengaged. M.S., 107 Shirley Road, Southampton.

LADY desires post as Assistant Dispenser; Hall qualification; experienced; Brighton or near. 8 Prestonville Road, Brighton, 1.

LADY Dispenser (age 19½) (Hall) seeks post with Chemist; accept small salary first 6 months for experience. Miss Horsfield, South Littleton, Evesham, Worcs.

LADY Dispenser (Hall) seeks post Doctor or Institution; experienced; disengaged; London preferred; moderate salary. 40 Brackendale Road, Bournemouth.

LADY Dispenser (21), Hall certificate, seeks post with Doctor, Hospital or Chemist; Deal or district within 10 miles. Codd, Wellington Parade, Walmer, Kent.

LOCUM, disengaged; Birmingham, Coventry, Leicester district. Sellors, 14 Hartington Crescent, Coventry.

LOCUM.—Qualified ex-proprietor; experienced Pharmacist, Scotland and England; disengaged. James Lees, Beechwood, New Cumnock, Ayrshire.

MANAGER or Assistant (27); finest possible experience, Bond Street and Continent; West End or Midlands preferred. Bate, 8 Princes Street, Bude. ('Phone: Bude 41.)

MANAGER or Locum; disengaged March 1st; exceptional all-round experience. The Croft, 12 Old Farm Road, Withdean, Brighton.

MANAGER (27), Qualified; all-round experience, including Buying; keen Window-dresser; sound permanency wanted. K. Field, The Mount, Skelmanthorpe, Huddersfield.

MANAGER (36), Qualified; married; good, all-round experience; free; interview any time. Beck, 193 Harrow View, Harrow.

MANAGER (45); 17 years as Manager; Dispensing, Window-dresser, Optical experience, etc.; excellent references; free February 10th. 143/49, Office of this Paper.

M.P.S., YOUNG, energetic, good London managerial experience, excellent references, seeks post in London area. 143/11, Office of this Paper.

M.P.S. (36), at present residing in Hove, desires position as Manager or post of responsibility; very wide experience of all branches of the trade at home and abroad; excellent references available; temporary appointment would be considered. Please apply 143/37, Office of this Paper.

PHARMACIST, middle-aged, active, desires position of trust, supervise or manage, etc.; reliable; disengaged. "C.," "Piako," South Street, Tarring, Worthing.

PHARMACIST (24), London, Provincial, South Coast and Manager's experience in High-class Pharmacy with heavy Dispensing, desires responsible position in the South. "M.P.S.," 43 Lake Street, Oxford.

PHARMACIST (25; 6 ft.), with excellent experience in West End and Family business, requires post as Manager or Assistant. 143/27, Office of this Paper.

QUALIFIED Beauty Specialist (22); 4 years' sound experience high-class clientele; sound Buying experience; can if required take complete charge; General Chemistry experience; good appearance; seeks good situation. Write "B.M.," 9 Gondar Mansions, Mill Lane, N.W.6.

QUALIFIED Branch Manager (30); married; experienced; good references; in or near London preferred; interview Thursday. 143/50, Office of this Paper.

QUALIFIED (33), desires change as Manager; single; good general experience; excellent references; £2 12s. 6d.; London only. 142/2, Office of this Paper.

QUALIFIED Manager (30) desires post, with living accommodation preferred; accustomed to Family and High-class Retail and Dispensing; undeniable references. "Davies," 9 Old Mill Road, Lower Chelston, Torquay.

QUALIFIED (25); keen worker; versatile Assistant, Manager (experienced); South preferred; free one month. H., 60 High Street, Chatham.

QUALIFIED (25), of good address, 9 years' experience, good Dispenser, Window-dresser, Salesman, seeks post of further responsibility; excellent references; free shortly. 142/24, Office of this Paper.

QUALIFIED (23), permanency as Manager; late Superintendent; all-round experience Dispensing, Counter, Windows; South preferred; free end February. 145/2, Office of this Paper.

SUTTON or Neighbourhood.—Elderly Pharmacist open for Dispensing or Relief; moderate terms. Address, "Chemist," 5 Ringstead Road, Sutton.

£100 INVESTMENT.—An Experienced Unqualified Assistant seeks post in either Retail or Wholesale business; reliable and conscientious. 142/22, Office of this Paper.

WHOLESALE.

A REPRESENTATIVE, established, covering London area, desires additional lines, well advertised, on part expenses and commission, or would consider full-time post. 144/2, Office of this Paper.

ADVERTISER (34) desires position in Wholesale House, South or Midlands, as Checker or Stock-keeper; 18 years' experience; hard worker; good timekeeper; highest references. 142/13, Office of this Paper.

MEDICAL REPRESENTATION.—Expert Propagandist, with unexceptionable credentials, wide experience amongst Physicians, Surgeons, Institutions, Clinics, sound knowledge Medicine, Therapeutics, desires re-engagement. "A.," 21 Gloucester Place, Brighton.

PIONEER, Sales, etc., appointment wanted over U.K.; 15 years' connection; experience Retail, Wholesale, Multiples, Chain Stores, Export; highest references; successful testified record reputable firms; salary, expenses; London. P.C.B. 192/16, Office of this Paper.

500 NEW accounts in one year on neglected ground. Representation desired for good house; salesmanship and propaganda work a specialty; considerable experience; good address; Chemists' and Doctors' connection (over 3,000); disengaged. "Recto." P.C.B. 192/15, Office of this Paper.

QUALIFIED Man, several years' experience, desires staff post, Clerical or Works; keen personality. 143/14, Office of this Paper.

REPRESENTATIVE, London or district, desires position with house of repute, Drug or Toilet. 273/879, Office of this Paper.

RESPONSIBLE position required, Representative; 10 years' first-class experience, control of Salesmen and Sales Staff; exceptional Sales record, can be inspected by reputable house; established connection Chemists, Stores, etc., throughout London, Home Counties, West of England; own car. Progress, 44 Alexandra Avenue, Southall, Middlesex.

RESPONSIBLE Resident Representative; own car; in good standing with all past employers and clientele; Doctors, Chemists, Medicated Wines traders; Professional and/or Trade Propaganda; Sales; South, West England; open to thorough investigation. "Stability," c/o General Gordon Hotel, Weymouth.

SALESMAN (29), tall, energetic, conscientious, desires responsible post as Representative with Toilet, Drug, Optical or Sundries house of repute; anywhere; Welsh speaking; advertiser knows South Wales very well. 143/7, Office of this Paper.

TABLET MAKING.—Over 30 years' experience with Premier Houses (mostly charge) is at your disposal; disengaged; excellent personal references; very moderate remuneration accepted. Dalby, 11 Osborne Road, Brighton.

TRAVELLER (35), with 12 years' good experience and progressive sales record; any part South or South-West. 140/6, Office of this Paper.

YOUNG Man (21), 5 years' all-round Retail experience, seeks any progressive post in Wholesale, inside or representations; well educated; excellent references. "Dispenser," 37 Abinger Road, W.4.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool
[CHEMISTS ONLY]

FOR SALE.

(Articles to the value of £5-£50.)

OFFERS WANTED.—21 Gross Trident Vials, surplus stock (unpacked), slip-on cap, 61 x 13 mm. Russell, Knox & Co., 75 Bothwell Street, Glasgow.

"NATIONAL" Cash Register; prints and adds; perfect order; snip. Write P. Paxton, 88 Madeira Avenue, Bromley, Kent.

NINE Dozen Fancy Oval Perfume Cases, 4 oz.; 2 gross Fancy Oval Perfume Cases, 2 oz.; 10 dozen Round Gilt Perfume Cases, $\frac{1}{2}$ oz.; 12 gross $\frac{1}{2}$ -lb. Hand Klenzer Boxes; 15 gross 1-lb. Hand Klenzer Boxes; 14 dozen 10-oz. Plain Screw Cap Polish Tins; 3 gross 16-oz. Plain Screw Top Polish Tins; 15 gross Plate Liquid Cleaning, Screw Top, together with Trade Mark; in good order; price to clear lot, £6; samples available. 273/875, Office of this Paper.

REPLIES FROM ADVERTISERS**A NEW SERVICE TO ADVERTISERS**

It frequently happens that advertisers are unable to reply individually to the large number of replies received week by week. In order to overcome this difficulty and at the same time to advise correspondents that advertisers' wants have been filled, a column is now available at a cost of one shilling per line; 3 lines 2/6.

MISCELLANEOUS.

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A COMPLETE Range of Chemists' Mahogany Shop Fittings, recently dismantled from well-known London Chemists; could be adapted to suit High-class Pharmacy or would be separated. Also Mahogany Shopfront from same premises. Bargain. H. MILLS & SONS, LTD., Chemists' Shopfitters and Shopfront Builders, 163-5 Old Street, London, E.C. 'Phone: Clerkenwell 5502/4.

A COUNTANT and Auditor, capable and experienced; well acquainted with the accounts of Chemists; attends to write up books, get out accounts and deal with income tax; fees reasonable and all business treated as strictly confidential. Write or call on Cyril J. Sperry, 57 Chanctonbury Way, Woodside Park, North Finchley, N.12, or 'phone Finchley 3522.

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate Glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shop Fitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

CHEMISTS' Shop Fittings in Oak or Mahogany; keenest prices; 8-ft., 10-ft., 12-ft. Drug Fittings; 6-ft., 8-ft. Wall Cases; 8-ft., 6-ft. Dispensing Screens; 6-ft., 8-ft., 10-ft. Serving Counters; 4-ft. Nests Counter Drawers; All-Glass Counters; Silent Salesmen; Bottles; Window Enclosures and Glass Shelves; send for rough sketches. GEORGE COOK, The Working Shopfitter, 27 Macclesfield Street, City Road, E.C.1. 'Phone: Clerk. 5371.

£69.—SPECIAL Offer of Shop-soiled Mahogany Fittings; all in perfect condition; comprising 10-ft. Drug Fitting, 6-ft. Dispensing Screen, 6-ft. Wall Case and 10-ft. Glass-fronted Counter; cannot be repeated. Write or telephone PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, London, E.C.1. Telephone: Clerkenwell 4111 and 4112. "Pharmacy Fitters for over a Century."

£9.—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists. D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

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AUTOMATIC Personal Weighing Machine required; inspection in London. Particulars Alchin & Co., England's Lane, N.W.3.

BELL Metal Mortar, 1 $\frac{1}{2}$ or 2 gal. capacity. J. Clarke, Durban Villa, 17 Tynygarn, Bridgend, Glam.

WANTED, IN GOOD CONDITION.—Second-Hand Sifter and Mixer, 40 mesh, complete with 1 $\frac{1}{2}$ h.p. motor for 230 volts a.c.; capacity about 100 lbs. 143/12, Office of this Paper.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

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